

Hannan Ali

Math and Code

I love all things Math and Code, currently pursuing a B.S. in Mathematics with a minor in Actuarial Science at Texas Tech University.

This blog is where I jot down my thoughts on anything that comes to mind

LinkedIn

Read the blog →

Resume

Mathematics and actuarial science student at Texas Tech University, with a background in software development and security research.

hannanal@ttu.edu · linkedin.com/in/hannancodes · github.com/abdulhannanali · hannan.codes

EDUCATION

Texas Tech University

Lubbock, TX

B.S. in Mathematics, Minor in Actuarial Science

Expected May 2027 · Cumulative GPA 3.95 / 4.00

Honors: President's List (Fall 2024, Spring 2025, Spring 2026), Dean's List (Fall 2025), Robert A. Moreland Endowment Scholarship, Proven Achievers Transfer Scholarship

Actuarial & Financial Mathematics: Actuarial Mathematics for Life Contingent Risks, Theory of Interest, Mathematical Finance, Financial Management, Principles of Economics

Mathematics: Real Analysis II, Advanced Calculus, Modern Algebra II, Numerical Analysis, Linear Algebra, Mathematical Statistics, Differential Equations, Mathematical Modelling

ACTUARIAL EXAMS & CREDENTIALS

- SOA Exam FM (Financial Mathematics) — sitting December 2026
- OpenJS Node.js Services Developer (JSNSD) & Application Developer (JSNAD)

EXPERIENCE

Security Researcher & Software Developer, R&D (Freelance)

Mar 2018 – Jul 2024

CHEQ · Remote · HQ Tel Aviv, Israel

- Researched web standards and browser specifications to design methods for detecting advanced bots and online fraud, identifying anti-spoofing signals that improved fraud-detection rates.
- Built a Node.js device farm of emulators and physical devices to empirically test the effectiveness of each new detection method before release.
- Benchmarked commercial code-protection products, then developed a proprietary JavaScript obfuscation engine to protect the company's client-side code from reverse engineering.

SI Leader — Financial Management (FIN 3320)

Aug 2026 – Present

Texas Tech University, Supplemental Instruction · Lubbock, TX

- Lead peer-assisted study sessions for a course completed with an A+, explaining quantitative finance concepts — capital budgeting, bond and stock valuation, WACC, and risk-return models — through collaborative learning.
- Author study packets and model-driven practice problems in coordination with course faculty and SI professional staff.

Peer Tutor (STEM & Quantitative Analysis)

Aug 2025 – Dec 2025

Texas Tech University, TECHniques Center · Lubbock, TX

- Provided one-on-one tutoring in Texas Government, Sociology, Algebra, and Calculus I to students registered with Student Disability Services.
- Tracked progress and reported milestones alongside academic counselors to support sustained academic performance.

PROJECTS

Modelling Lubbock Animal Services (MATH 4000)

Applied Mathematical Modelling

Applied mathematical modelling to the operations of a local community partner as part of a project-based course in applied mathematics.

LEADERSHIP & INVOLVEMENT

Student Ambassador — College of Arts & Sciences

May 2025 – May 2026

Texas Tech University

Represented the Department of Mathematics & Statistics at recruitment and outreach events, contributing 20+ hours per semester and guiding prospective students through STEM degree pathways.

Summer Community Advisor — University Student Housing

May 2025 – Aug 2025

Texas Tech University

Supported West Village residents and helped implement the summer housing curriculum.

SKILLS

Languages: Python, MATLAB, JavaScript, TypeScript, Node.js

Tools & Platforms: Cloudflare Workers, Google Cloud Platform, Git, Excel & Google Sheets (financial modeling)

Academic Transcript

Texas Tech University · Unofficial record of completed coursework.

This is not an official transcript. Courses in progress may be included.

STUDENT INFORMATION

Program	Bachelor of Science in Mathematics
College	College of Arts & Sciences
Department	Mathematics & Statistics
Minor	Actuarial Science

Senior · Cumulative GPA 3.95 / 4.00

COURSEWORK

Fall 2024		GOOD STANDING · PRESIDENT'S LIST	
COURSE	TITLE	GRADE	HOURS
CARS 2300	Communication, Civility & Ethics	A	3
MATH 3310	Introduction to Proof	A+	3
MATH 3354	Differential Equations I	A	3
POLS 1301	American Government	A+	3
WGS 2300	Introduction to Women's & Gender Studies	A+	3
Term GPA: 4.00			

Spring 2025		GOOD STANDING · PRESIDENT'S LIST	
COURSE	TITLE	GRADE	HOURS
MATH 2360	Linear Algebra	A+	3

COURSE	TITLE	GRADE	HOURS
MATH 3356	Quantitative Theory of Interest	A	3
MATH 4000	Math Locally: Modelling Lubbock Animal Services	A	3
MATH 4310	Introduction to Numerical Analysis I	A+	3
			Term GPA: 4.00

Summer 2025
GOOD STANDING

COURSE	TITLE	GRADE	HOURS
ECO 2302	Principles of Economics II	A	3
THA 2304	Introduction to Cinema	A-	3
			Term GPA: 4.00

Fall 2025
GOOD STANDING · DEAN'S LIST

COURSE	TITLE	GRADE	HOURS
FIN 3320	Financial Management	A+	3
MATH 3360	Foundations of Algebra I	B	3
MATH 4342	Mathematical Statistics I	A	3
MATH 4350	Advanced Calculus I	A	3
			Term GPA: 3.75

Spring 2026
GOOD STANDING · PRESIDENT'S LIST

COURSE	TITLE	GRADE	HOURS
HIST 2301	History of the U.S. Since 1877	A	3
MATH 4000	Actuarial Mathematics for Life Contingent Risks	A+	3
MATH 4000	Modern Algebra II	A	3

COURSE	TITLE	GRADE	HOURS
MATH 4351	Real Analysis II	A	3
			Term GPA: 4.00

Summer 2026

GOOD STANDING

COURSE	TITLE	GRADE	HOURS
MATH 4000	Introduction to Mathematical Finance II	A+	1
			Term GPA: 4.00

IN PROGRESS — FALL 2026

COURSE	TITLE	HOURS
ECO 2301	Principles of Economics I: Microeconomics	3
HIST 2300	History of the United States to 1877	3
MATH 4000	Theory of Numbers	3
MATH 4343	Mathematical Statistics II	3

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SOA Exams

Society of Actuaries examinations — progress toward actuarial credentials.

Administered by the Society of Actuaries, separate from university coursework. Select an exam to see topic-level progress.

Exam FM **Financial Mathematics**

Scheduled — December 2026

Blog

Thoughts on code, projects, and building things.

APRIL 06, 2024

Finding Distance between two skew lines

Recently, I had trouble finding the distance between two skew lines but this incredible video from Math By Sarah did a great job explaining...

[Read more →](#)

OCTOBER 01, 2022

Deleting the unused code saves time

Deleting the unused code files save time. I learnt it the hard way and vow not to do it again.

[Read more →](#)

JULY 30, 2022

Cloudflare Path Proxying Worker Case Study

Abstract In Q2 of 2022, a beauty brand from Germany faced a problem that required proxying a certain path to another domain. They used...

[Read more →](#)

MAY 03, 2022

semi-formal Introduction

Hello World, Every now and then I have to write a page introducing myself to the world and convey that somehow I matter and this is just one...

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APRIL 20, 2022

Cloudflare Pages and updating the Node.js version

TLDR: I explain the story here, if you want to go to solution, go a little below. In the last post, I mentioned, my will to blog and...

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APRIL 20, 2022

IT's a STARTer

Hi there! Finally, after carefully deliberating for a quarter chunk of my life (given i actually live hundred years). I have finally...

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EXAM FM

Financial Mathematics

Society of Actuaries (SOA) · Scheduled — December 2026

Interest theory and the valuation of cash flows: time value of money, annuities, loans, bonds, portfolios, immunization, and basic interest-rate derivatives.

TOPIC PROGRESS

TOPIC	EXAM WEIGHT	PROGRESS
Time Value of Money	10–15%	To update
Annuities	15–20%	To update
Loans	10–20%	To update
Bonds	10–20%	To update
General Cash Flows & Portfolios	15–20%	To update
Immunization	10–15%	To update
Interest Rate Swaps	0–10%	To update
Determinants of Interest Rates	0–10%	To update

Cloudflare Path Proxying Worker Case Study

JULY 30, 2022

Abstract

In Q2 of 2022, a beauty brand from Germany faced a problem that required proxying a certain path to another domain. They used Cloudflare for their web sites and approached me to solve this problem through various services that Cloudflare Provides. This is the case study of the solution that I built for them using various Cloudflare Services mainly including a Cloudflare Worker aided by Cloudflare WAF and Transform Rules.

The name of the brand under discussion has been hidden for privacy reasons and replaced with XYZ Brand.

The Problem

XYZ Brand had a WooCommerce based store and Wordpress blog running on the very same instance. But now, they decided to move their blog to a separate Wordpress instance. This availed them some benefits such as separating the Store Operations Team from the

Blogging Team and also reduce the traffic load on the Store Website which improved the availability.

Their blog was hosted on a specific path let's say <https://xyz.com/magazine> and for SEO reasons they wanted to keep serving their blog at the same path instead of diverting users to a new domain just to visit the blog.

The Solution

Since XYZ Brand was already using Cloudflare Edge Platform for their needs, they rightfully guessed that Cloudflare and most importantly Cloudflare Workers could help address the requirements.

Building this solution required coding the worker, deploying it and fixing up any issues that happened while deployment. Here, I discuss various aspects of the solution which includes details about the code, deployment and issues faced while deploying.

In this solution xyz.com is assumed to be the client's main domain and x.xyz.com the domain where the blog instance is hosted.

About the Code

The requirements were straightforward, and I got to work right away and coded the worker, details of its code are discussed further.

For this project, a multi-file code base was coded in TypeScript and bundled using Rollup Module Bundler. Generally, I prefer against a single file Cloudflare Worker codebase since it takes away the benefits that come with TypeScript type system and modularity. This ensures a robust codebase.

Even for small workers, the investment can pay off by reducing the debugging time and risk of deploying the worker. Since Cloudflare only lets single worker intercept a route, having a modular codebase improves extensibility of the worker as well and reduces the time it takes to extend the functionality.

The Cloudflare Worker is modeled after the well-known Service Worker Web APIs with intuitive APIs and constructs for proxying use case such as the one at hand. In fact, Cloudflare has been the one to popularize the usage of Web APIs beyond the browser, evident from JavaScript + TypeScript runtimes such as Bun and Deno adopting a similar approach.

This simplicity makes achieving the solution possible with just a few lines of code as shown in the code below. The availability of Web APIs in such as Request and URL in the Cloudflare Workers platform was helpful in achieving this simplicity without any third-party modules.



The code above achieves the following tasks

1. Checks whether the URL's path starts with a certain path
2. If yes it rewrites to a different origin by changing the hostname

3. Otherwise, the request is passed as-is to the original server

The starting path pattern on which the URLs need to be rewritten and intercepted is made configurable by adding it as an environment variable. This lets the client in this case XYZ Brand change the starting path from Cloudflare Worker's Dashboard or by modifying the related variable in Github Actions Secrets configuration to persist it as part of the deployment process.

The Deployment

After testing the code in the development, the next step was to deploy the code in the production.

It isn't possible to push the codebase as-is to limited featured Cloudflare Worker's quick editor due to the inherent characteristics of the codebase to secure robustness and maintainability. The bundler and TypeScript compiler needs to be run at some place after all.

At the same time, it's impractical to ask them to duplicate the environment on their own without providing necessary guidance. For some, it could become largely a headache when they eventually need to change a few lines of code on their own in the future. In this case, the deployments were streamlined using well known Continuous Deployment tool Github Actions with official support for Cloudflare Worker's CLI Wrangler in form `@cloudflare/wrangler-action`.

A simple Github Action Workflow was able to achieve the deployment. The Workflow file was straightforward and created no additional and unnecessary jargon than needed to make the deployment possible as seen below.



Once done, the last step in the deployment process was to provide necessary information to the technical lead at XYZ Brand on how they can configure various variables such as Cloudflare API Token and Worker related variables in Github Actions. This information was provided to them in documentation and through walk through videos which I later discuss.

Fixing deployment issues

After initial deployment, we encountered two issues sequentially in production which are detailed below.

All the links on the new blog instance were absolute. Hence, rewriting the page persisted with the links that were linking the old site. This could have been solved one of two ways using Cloudflare's own HTMLRewriter API which provides a Streaming construct to rewrite the content of the proxied resource. The other

one, was to change the Wordpress Site Address so the links point to the front-facing website in the first place.

Although HTMLRewriter is a great option, it's usage for dynamic websites can leave some loopholes. Then, there's also issue of dynamically generated links which requires injecting some client-side javascript that can handle renaming the rest of the links not handled by HTMLRewriter. It was also noticed that some Wordpress Plugins which internally pointed to the original domain were also breaking.

Hence, it was decided to change the Site Address since this was at our disposal and was safer bet of both. Our guess turned out right and the instance rewrote all the URLs to the front facing domain as expected.

It turned out however, that changing the site address didn't rewrite some of the resource URLs causing CORS errors. Since, by default in the absence of Access-Control-Allow-Origin header, fetch calls from x.xyz.com are disallowed from being loaded onto xyz.com. This was easily solved by adding a transform rule for HTTP Response Header Modification.

The reason for using a Transform Rule and not a worker on x.xyz.com to add the CORS header happened to be cost-related. Adding a worker for simple use case would have increased the bill far over the client's expectations. Since, by not adding a worker on x.xyz.com, all the Sub resource requests were not intercepted the server.

For now, this works fine to keep the cost minimum. However, if the client wants to perform modifications on sub-resources directly. Only then, a worker makes sense for sub resources fetched through x.xyz.com. Graphically, this flow can be described as follows.

Using Cloudflare WAF to block original domain

The brand owner wanted to block search engine crawlers to avoid SEO issues such as double listing. However, an outright block to the domain wasn't something they preferred to keep the debugging simple for the developers.

Here Cloudflare Web Application Firewall saved the day. Since it turns out we can configure Cloudflare's Firewall to disallow any Known Bots. In my testing I found it effective for search engine crawlers which dominate the market, and the client was most concerned about. No robots.txt or any other modification was required to make it work.

Once again, another benefit of using Cloudflare Web Application Firewall is avoidance of incorporating a worker for use case already handled by one of their dedicated services. Cloudflare Web Application Firewall can seamlessly handle other use cases such as Blocking for all except the worker with only a little modification required for the worker. This provides benefit of configurability to the client. Documentation

While it's important to maintain a stream of communication while building the solution. It's equally important and a responsibility to leave the documentation in an understandable and pointed state so that any one coming after me can easily pick up on the solution that's been built.

Hence, with the following worker I made sure that at least following items were accompanied with the repo.

1. Functionality of the worker

Just to tell a little bit that what the worker does. It always helps people make sense of the repositories. I also added that developer expected for the worker to achieve.

2. Configuration and Deployment Instructions

Based on the environment, instructions about configuring environment variables and deploying are also provided. This is helpful for any future developers to replicate.

They are combined into one because based on the deployment method. Methods can vary a little. Since, where possible I aim to provide both manual and automated deployment and configuration instructions.

Written by **Hannan Ali**

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semi-formal Introduction

NEXT →

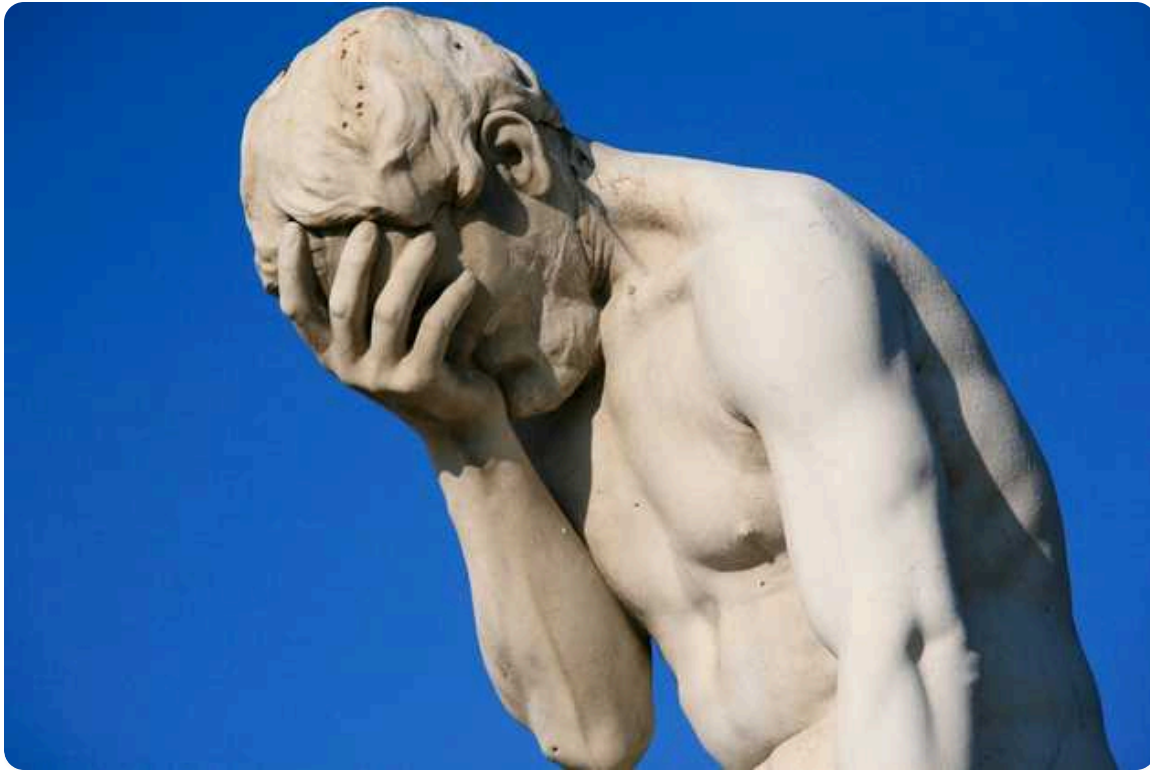
Deleting the unused code saves time

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Deleting the unused code saves time

OCTOBER 01, 2022





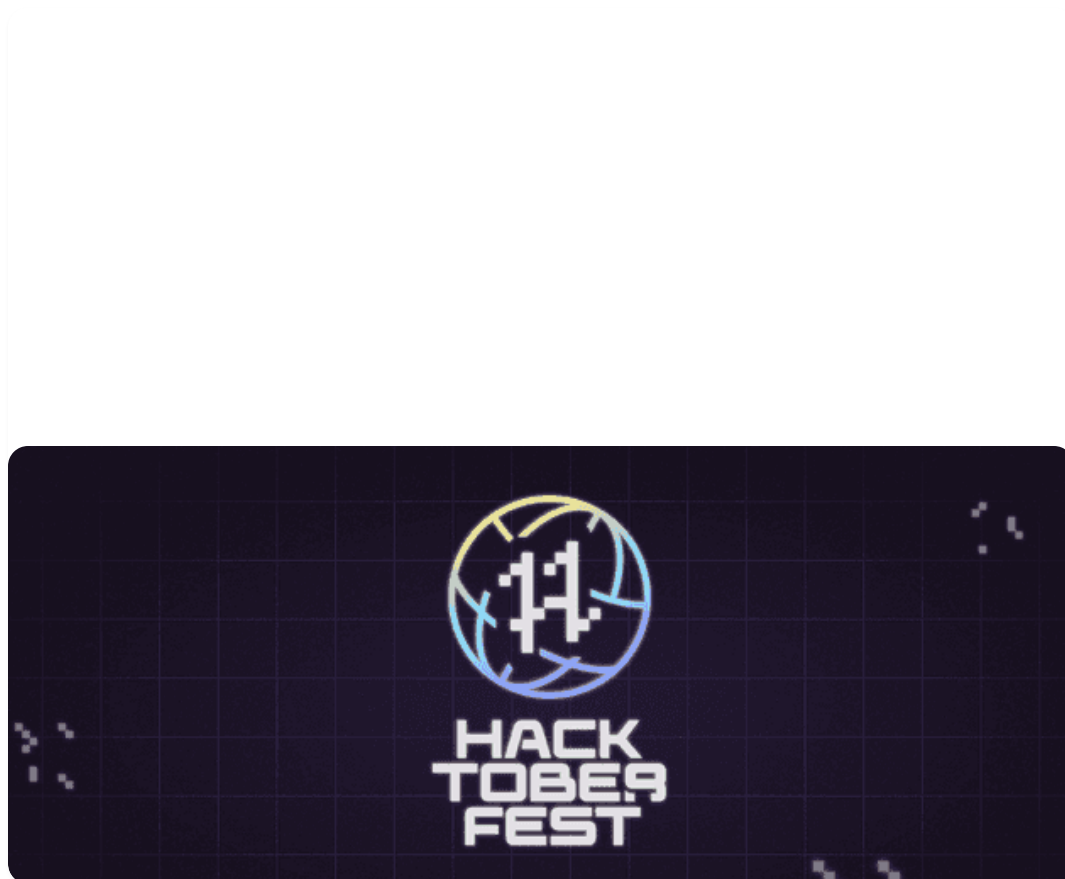
Last week, I reopened a JavaScript Code Repository that I first authored two years back. The nature of some of my work requires that once mission accomplished, I move on to a task maybe of entirely different nature and level of coding.

In such work scenarios, I only come back to the repository when one of the following happens:

- Bugs or Performance Bottlenecks that are clearly a hindrance for successful operations
- Feature Requirements

Many times, especially after long intervals of writing code, I have the urge of diving right into the codebase and start cranking new code. This was one of those times when I was just too excited to listen to **tap***tap** of my ThinkPad T480.

Hacktoberfest Plug



Btw, by the topic of code, fixing bugs and adding features. I just remembered that [Hacktoberfest](#) has already begun. I am very excited to participate in this year's Hacktoberfest starting with this [PR](#) merged soon in the ever awesome and generous Aaron Abramov's testing library, [k9 for rust](#). 3 left to go after this one. Maybe one of those PRs you and I make would delete some of the same unused to avoid same

kinds of mess up, which is the topic of this discussion, its all tracked by Git after all, so no problem deleting right?

Continuing to my story. So, A couple of Pomodoro Timers and writing a bunch of code I think was a good start. To my surprise, much of the logic I was wasting time on now was already well integrated. Which meant the pomodoro timers were as good as spoilt pomodoros.

On some post messup investigation, It seemed that at some early point I rewrote the logic into a submodule but never thought to delete the initial files that contributed to the good ol' spaghetti. At this point, I made some more fixes after going through the code and added a bunch of features. While being repentant to delete the files at the spot if they're not being imported anymore.

It wasn't all doom though, I was nowhere near the progress of the code I wrote at my previous stint at this module. Plus, it also came with fixes and stability worth of an year's time. But, considering I was the original author of the project. I can't help but imagine anyone else falling for the same dilemma with more intensity and frustration if they don't go through the entire codebase line-by-line. To add to this failure, there was no documentation at the time.

So, Here's one of the most prominent Unknown Unknowns of this repository. This term comes from the book Philosophy of Software Design which I am currently still reading. Courtesy of the book Issuance department of a local library. The unnecessary commented code and unused files certainly create obscurity and confusion for someone. Hence, this is a mistake not worth repeating ever again.

Action Items

So here are some actionable items and pseudo code of what I will be doing, when authoring my future code.

- Unused Code should be removed or its purpose clearly commented
- Unused Files should be removed or any purpose for which it exists should be clearly commented
- Preferably delete them and Commit to Git
- Maintain a CHANGELOG.md for all the previous changes along with the commits
- Make this CHANGELOG.md easily discoverable
- Document the entrypoints of the code in README file

For all the authored in the same manner in the past though, I will take some time to ensure that unused codes is not there anymore whenever I find a chance to reopen those. Future maintainers, I will make you proud, I promise.

Bonus Content

This reminds me of an event in around 2014 - 2015 time, when I was participating in [Google CodeIn](#) and I was politely scolded by one of my kind mentors from India  for leaving commented code within the Pull Request I created to the project.

Although, I don't make the mistake of having commented code anymore. The deeper meaning or philosophy there was to not have useless and meaningless things in code and keep the codebase **Clean**. At the time I am afraid I missed it. But about 7 years, I am finally here repenting and vow to not make this mistake.

Thank you!

Thank you for reading my blog post and visiting my blog. ❤️

I appreciate your time and would like to learn from your experiences of writing code. You can share them with me [@computistic on Twitter](#) or email me at hello@hannan.codes.

Stay Well Slept 

Written by **Hannan Ali**

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Cloudflare Path Proxying Worker Case Study

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Finding Distance between two skew lines

Cloudflare Pages and updating the Node.js version

APRIL 20, 2022

TLDR: I explain the story here, if you want to go to solution, go a little below.

In the last post, I mentioned, my will to blog and Cloudflare's automagical ability to setup auto deployments from Github Repository. But it still took me some time to figure that what I was looking for was there all along.

If you are from the same time as me, you'll probably see a cryptic error mentioning that Node.js version is not supported by Gatsby.

You may think that Cloudflare Pages Build system doesn't support any higher versions and start deliberating some other options such as Github Actions, which might give you more control over the node version and get your site up and running. But this option has it's own downsides.

It turns out that Cloudflare Pages unlike it's Worker's product, doesn't have a Github Action for it. Hence, the workflow I brainstormed turned out to be something like the following

- Generate Github Artifacts through a Github Actions Workflow
- Once generated push the artifacts to a branch on the same repository or a different repository
- Let the Cloudflare Pages listen to that branch/repository so it can auto deploy the static artifacts

As you can see, it's cumbersome and who needs to maintain a separate build process.

Thankfully, there's an easier way to do this.

Easiest Solution

The easiest solution I found for this problem was just tell Cloudflare to use a newer Node.js version than the default one it currently uses. This is possible, by changing the `NODE_VERSION` environment variable in the settings of your Cloudflare Pages project.

There are a range of configurable environment variables that Cloudflare offer for different languages and runtimes it supports. You can take a look on [Build Configuration](#) to learn more about these.

Yes, So No Extra Complicated Build Processes required, thanks for the configurability of Cloudflare Pages.

Conclusions

So I guess the conclusion of this post is, it always pays to look deeper into the product and see if they have any native solutions to the problem.

In short, Read The Manual and Save Some Time :)

Written by **Hannan Ali**

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IT's a STARTer

← All posts

Finding Distance between two skew lines

APRIL 06, 2024

Recently, I had trouble finding the distance between two skew lines but this [incredible video from Math By Sarah](#) did a great job explaining the concept, than all the other ones. So, I totally, recommend watching the video.

Here are my follow through notes. I hope they're helpful

Q. Find the distance between skew lines

$$\vec{r}(t) = (-\hat{j} + \hat{k})t + (-3\hat{i} - 8\hat{j} + 7\hat{k}) \quad \text{(Based on Youtube video by Math By Sarah)}$$

$$\vec{p}(s) = (-4\hat{i} - 3\hat{j})s + (6\hat{i} + 3\hat{j})$$

Sol.

$$\vec{r}(t) = t\vec{v}_r + \vec{r}_0$$

$$\vec{p}(s) = s\vec{v}_p + \vec{p}_0$$

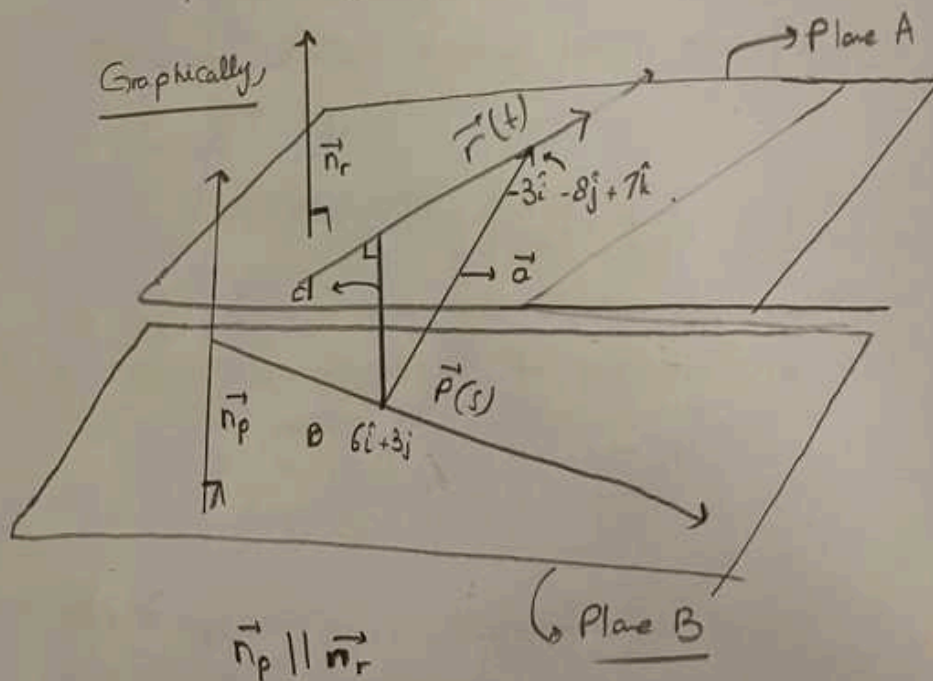
Hence,

$$\vec{v}_r = -\hat{j} + \hat{k}$$

$$\vec{r}_0 = -3\hat{i} - 8\hat{j} + 7\hat{k}$$

$$\vec{v}_p = -4\hat{i} - 3\hat{j}$$

$$\vec{p}_0 = 6\hat{i} + 3\hat{j}$$



Hence,

$$\underline{\vec{n}_p = \lambda \vec{n}_r} \quad \text{or} \quad \vec{n}_r = \vec{n}_p = \vec{n}$$

Also, in the figure,

$$\vec{a} = \vec{r}_0 - \vec{p}_0 \quad \left(\begin{array}{l} \text{distance from point on line } p(t) \\ \text{point on line } r(t) \end{array} \right)$$

$$\text{and } d = \|\text{proj}_{\vec{n}}(\vec{a})\|$$

d is distance between lines.

Hence,

$$\vec{a} = (-3-6)\hat{i} + (-8-3)\hat{j} + (7-0)\hat{k}$$

$$\vec{a} = -9\hat{i} - 11\hat{j} + 7\hat{k}$$

Then, the shortest distance between skewed lines is given by,

$$d = \|\text{proj}_{\vec{n}}(\vec{a})\| = \left\| \frac{\vec{n} \cdot \vec{a}}{\|\vec{n}\|^2} \cdot \frac{\vec{n}}{\|\vec{n}\|} \right\| = \frac{|\vec{n} \cdot \vec{a}|}{\|\vec{n}\|^2}$$

Since $\vec{n}$ is a unit vector it does not change the length of the projection. Hence one can write

$$\left\| \frac{\vec{n} \cdot \vec{a}}{\|\vec{n}\|} \cdot \frac{\vec{n}}{\|\vec{n}\|} \right\| = \frac{|\vec{n} \cdot \vec{a}|}{\|\vec{n}\|}$$

The normal vector is perpendicular to both $\vec{r}$ and $\vec{p}$ which are in turn ^{is} perpendicular to both $\vec{r}(t)$ and $\vec{p}(s)$ respectively.

$$\vec{r}(t) \text{ and } \vec{p}(t)$$

$$r(t) \text{ and } p(t)$$

Hence,

$$\vec{n} = \vec{r}_r \times \vec{v}_p$$

$$= \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ 0 & -1 & 1 \\ -4 & -3 & 0 \end{vmatrix}$$

$$= \hat{i}(3) - \hat{j}(4) + \hat{k}(4)$$

$$\vec{n} = 3\hat{i} - 4\hat{j} + 4\hat{k} \quad , \quad \|\vec{n}\| = \sqrt{41}$$

Hence,

$$d = \|\text{proj}_{\vec{n}}(\vec{a})\| = \frac{\vec{n} \cdot \vec{a}}{\|\vec{n}\|}$$

$$= \frac{(3 \cdot (-9)) + (-11)(-4) + 4(7)}{\sqrt{41}}$$

$$= \frac{-27 + 44 + 28}{\sqrt{41}}$$

$$d = \frac{-11}{\sqrt{41}}$$

According to Math by Sarah, its important to conclude once you come up with an answer of whatever you're trying to Mathematically model.



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Deleting the unused code saves time

semi-formal Introduction

MAY 03, 2022

Hello World,

Every now and then I have to write a page introducing myself to the world and convey that somehow I matter and this is just one of those.

I am Hannan Ali, and I have been coding for a long time now. Before I introduce you, I just want to tell you that I love software development and playing with computers. So much so, that I happily stepped away from formal education for a while to pursue it full time — though I've since returned to it, studying mathematics at Texas Tech University.

What is my stack, you ask?

I don't like boxes personally, and defining one's stack is just that. A box.

As long as it requires code and the problem is interesting enough, I am always open to learn new technologies, languages, frameworks, you name it!

Saying that, I would leave you confused, if I don't give you a relative measure for my technology prowess.

Hence, I hereby proclaim, to all thy fellow readers, that I am comfortable working across the categories below.

- Node.js and it's frameworks and libraries
- Cloudflare Workers

- Google Cloud Platform
- React.JS (maybe get a smaller box when it comes to this)
- HTML
- CSS
- JavaScript
- TypeScript
- Fixing Cross Browser Compatibility Issues

Do I learn new things?

Yes, I love to learn new things.

Do you have one of those PDF documents called Resume?

Why yes — you can find it on my [resume page](#).

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Cloudflare Path Proxying Worker Case
Study

IT's a STARTer

APRIL 20, 2022

Hi there!

Finally, after carefully deliberating for a quarter chunk of my life (given i actually live hundred years). I have finally something on my homepage.

I had some pretty big plans for designing my blog, but right now, I care more about getting something written than a super fancy blog with all the **bells and whistles**.

The change and final push came from reading The Lean Startup which encouraged me to get myself out there and hence folks, what you see is the MVP (Minimum Viable Product) of my blog.

Doesn't have to be pretty

This starter I am using is named [gatsby-starter-blog](#) and how aptly named it is.

As you know, starters of Bread aren't really very nice looking. They look kinda like mud from what I see on Google Images. But produce Bread. So yeah it doesn't have to be pretty.

Let's just get the bread preparation going and worry about the end product, which is the actual writings in this case.

About this blog

It shouldn't go without saying the names of the enablers, thanks to which this blog is possible.

- Cloudflare Pages (I host it there, it magically integrates Continuous Deployment)
- Gatsby Starter Blog
- [Gitpod.io](#) (Gitpod is my new favorite tool, it helped me move all my coding mess online, so my laptop doesn't burn down the whole building in this hot summer of Lahore)

Thanks for reading.

Thank you very much for reading the very first content piece here.

Here's to the upcoming ones, that actually try to have an insight or two for the readers!

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Cloudflare Pages and updating the Node.js version

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semi-formal Introduction

← Transcript

CARS 2300

Communication, Civility & Ethics

Fall 2024 · Grade: A · 3 credit hours

Write-up coming soon.

← Transcript

ECO 2301

Principles of Economics I: Microeconomics

Fall 2026 · 3 credit hours

Write-up coming soon.

← Transcript

ECO 2302

Principles of Economics II

Summer 2025 · Grade: A · 3 credit hours

Write-up coming soon.

← Transcript

FIN 3320

Financial Management

Fall 2025 · Grade: A+ · 3 credit hours

Write-up coming soon.

← Transcript

HIST 2300

History of the United States to 1877

Fall 2026 · 3 credit hours

Write-up coming soon.

← Transcript

HIST 2301

History of the U.S. Since 1877

Spring 2026 · Grade: A · 3 credit hours

Write-up coming soon.

← Transcript

MATH 2360

Linear Algebra

Spring 2025 · Grade: A+ · 3 credit hours

Write-up coming soon.

← Transcript

MATH 3310

Introduction to Proof

Fall 2024 · Grade: A+ · 3 credit hours

Write-up coming soon.

← Transcript

MATH 3354

Differential Equations I

Fall 2024 · Grade: A · 3 credit hours

Write-up coming soon.

← Transcript

MATH 3356

Quantitative Theory of Interest

Spring 2025 · Grade: A · 3 credit hours

Write-up coming soon.

← Transcript

MATH 3360

Foundations of Algebra I

Fall 2025 · Grade: B · 3 credit hours

Write-up coming soon.

← Transcript

MATH 4000

Actuarial Mathematics for Life Contingent Risks

Spring 2026 · Grade: A+ · 3 credit hours

Write-up coming soon.

← Transcript

MATH 4000

Introduction to Mathematical Finance II

Summer 2026 · Grade: A+ · 1 credit hour

Write-up coming soon.

← Transcript

MATH 4000

Math Locally: Modelling Lubbock Animal Services

Spring 2025 · Grade: A · 3 credit hours

Write-up coming soon.

← Transcript

MATH 4000

Modern Algebra II

Spring 2026 · Grade: A · 3 credit hours

Write-up coming soon.

← Transcript

MATH 4000

Theory of Numbers

Fall 2026 · 3 credit hours

Write-up coming soon.

← Transcript

MATH 4310

Introduction to Numerical Analysis I

Spring 2025 · Grade: A+ · 3 credit hours

Write-up coming soon.

← Transcript

MATH 4342

Mathematical Statistics I

Fall 2025 · Grade: A · 3 credit hours

Write-up coming soon.

← Transcript

MATH 4343

Mathematical Statistics II

Fall 2026 · 3 credit hours

Write-up coming soon.

← Transcript

MATH 4350

Advanced Calculus I

Fall 2025 · Grade: A · 3 credit hours

Write-up coming soon.

← Transcript

MATH 4351

Real Analysis II

Spring 2026 · Grade: A · 3 credit hours

Write-up coming soon.

← Transcript

POLS 1301

American Government

Fall 2024 · Grade: A+ · 3 credit hours

Write-up coming soon.

← Transcript

THA 2304

Introduction to Cinema

Summer 2025 · Grade: A- · 3 credit hours

Write-up coming soon.

← Transcript

WGS 2300

Introduction to Women's & Gender Studies

Fall 2024 · Grade: A+ · 3 credit hours

Write-up coming soon.