

# Vidhan Bhatt

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## EDUCATION

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### McMaster University

*B.A.Sc in Computer Science (3.7 GPA)*

Hamilton, Ontario

*September 2022 – May 2026*

## PROJECTS

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### **fncli** | *Rust, GitHub Actions*

December 2022

- A Rust library to simplify writing command line applications
- Implements industry-standard testing and continuous integration using GitHub Actions
- Received 29 stars on GitHub over the span of 3 days

### **MacEats** | *Rust, Warp, Request, React, Next.js, Docker, Fly.io, Vercel*

October 2022

- A full-stack modern reimplement of MacEats, the McMaster University campus dining site
- Made for the 2022 McMaster CS Society Hacktober Competition and received 100% in judge voting, placing second overall in the competition
- Uses Rust for the general-purpose library to access the original data, a Rust/Warp backend built upon that library, and a Next.js/React frontend built upon that backend
- Uses Fly.io to host the backend and Vercel to host the frontend

### **StatMuse Bot** | *Rust, Axum, Sled, Twitter API v2, OAuth2, Fly.io*

October 2022

- A Twitter bot which gets NBA players stats from StatMuse
- Uses OAuth2 to authenticate with the Twitter API v2
- Deployed on Fly.io

### **vidhan.io** | *React, Next.js, Tailwind CSS, MDX, Prism, Vercel*

February 2022 – April 2022

- My personal site, used as a home page and a blog
- Blog is written completely from scratch using MDX, with Prism as the syntax highlighter
- Blog uses Git to track when posts were written and updated
- Made using Next.js, Tailwind CSS, and MDX for the blog, and deployed on Vercel

### **Checkpoint** | *Go, DiscordGo, Docker, GitHub Actions, Google Cloud Platform*

October 2021 – February 2022

- A Discord student identity verification bot for clubs in the Peel District School Board
- Made to combat rampant spam bots which would join servers in our school
- Uses Go for the Discord bot, which is deployed to Google Compute Engine, using GitHub Actions to automate the deployment process
- Includes other useful features such as applying grade roles and pronouns

### **Diswordle** | *Go, DiscordGo, Docker, GitHub Actions, Google Cloud Platform*

October 2021 – February 2022

- A Discord bot which re-implements the popular word-guess game Wordle
- Wrote the Wordle engine entirely from scratch, and published it as a separate Go module
- Uses Go for the Discord bot, which is deployed to Google Compute Engine, using GitHub Actions to automate the deployment process

### **Timetables** | *Python, Google Cloud Platform*

August 2021 – September 2021

- A Discord bot to crowdsource your timetable to find who shares classes with you
- Parses PDF timetables provided by the school, and turned them into an easy-to-use data structure
- Allows many different ways to view the data, such as a list of people in your classes or a list of classes you share with a person
- Written in only four days, and was used by over 100 students before school started, receiving very positive feedback

## TECHNICAL SKILLS

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**Languages:** Rust, Go, JavaScript, TypeScript, Python, Haskell, Java, SQL (PostgreSQL, SQLite3), MongoDB, Docker, Shell Script, Solidity, HTML, CSS

**Frameworks:** React, Node.js, Next.js, Svelte, Swing, Discord API, Twitter API v2, Tailwind CSS

**Developer Tools:** Visual Studio Code, Vim, Google Cloud Platform, Fly.io, Vercel, Cloudflare, Poetry, GitHub, GitHub Actions, Unix

**Libraries:** Axum, Warp, SQLx, Sled, Request, DiscordGo