PATRICK LIN

SOFTWARE DEVELOPER

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⊙ ApocalypseCalculator
in patrick-lin-208669213

EXPERIENCE

PROJECT MANAGER/LEAD DEVELOPER/FOUNDER
Project Metropolis
June 2021 - July 2023

- Coordinated a team of **40+** developers, writers, and artists, to develop maclyonsden.com (**1000+** users), the online hub for all student activities related to school
- Built the mobile app client (**800+** installs) using **React Native** and **TypeScript**, doodle game platform using **Express** and **Prisma**, and announcement forwarding bot, all open source here
- Maintained infrastructure and optimized CI/CD pipeline using **Docker**, **Bash** scripts, and **GitHub Actions**

SOFTWARE ENGINEER INTERN
Zhuhai Freeview Ltd.
July 2023 - August 2023

- Created software to generate **Vue.js** frontends for hospital bed machines for clients using modular drag and drop components
- Decreased backend processing time by offloading PDF generation to a separate server built using **Go** and Maroto

FULLSTACK DEVELOPER
Ben Segev Teaching
June 2022 - Present

- Built a paid math educational website with **React** and **Express**
- Interfaced with Stripe API to facilitate financial transactions and Cloudflare Stream to serve dynamic video content

SKILLS

- **Languages:** HTML/JS/CSS, Node.js, TypeScript, Golang, Java, C++, C, Python, Rust, SQL
- **Frameworks/Libraries:** React.js, Electron.js, Express.js, React Native, Django, Prisma, Spring
- **Other:** Git, SVN, Windows (Win32 API), Linux, Nginx, Docker, Kubernetes, ActiveMQ

AWARDS

Canadian Computing Competition Honour Roll (Feb 2022)
Achieved Group 3 on the Senior Division Honour Roll (97th percentile)

picoCTF 3rd in Canada (Mar 2022)
Led a team of 5 to solve various cybersecurity challenges

EDUCATION

UNIVERSITY OF WATERLOO
Bachelor of Computer Science Candidate
2023 - Present

LANGUAGES

English — Native

Mandarin Chinese — Native

PROJECTS

- **Feck Files**, a simplistic online file storage solution, built using **TypeScript**, **React**, **Express**, and a custom implementation of the Tus upload protocol. Actively maintained and open source.
- **Someone Bot**, a community Discord bot where you can @someone, currently in use in **800+** servers. Built with **TypeScript** and interfaces with the Discord slash commands API.
- **Screentime Showdown**, a platform to challenge your friends to a no-social-media showdown by staking money for a prize pool, won Hack the Valley's Best Financial Hack. Built with **React**, **Express**, and interfaces with Cohere's generative AI.