

# PATRICK LIN

## SOFTWARE ENGINEER

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## EXPERIENCE

### SOFTWARE ENGINEER INTERN

#### TensorOpera, Inc.

May 2024 - August 2024 | Palo Alto, California, USA

- In a team of 3, designed and created cloud GPU rental service to auto-provision GPU machines for ML workflow deployment
- Helped rework the scalable inference endpoint deployment service, allowing ML researchers to optimize their models better
- Built and integrated autonomous crawler agent into deployment pipeline using **TypeScript**, **Jenkins**, and **Kubernetes**
- In a team of 2, refactored frontend UI/UX using **Vue**

### PROJECT MANAGER/LEAD DEVELOPER/FOUNDER

#### Project Metropolis

June 2021 - July 2023 | Toronto, Ontario, Canada

- Coordinated a team of **40+** members to develop [maclyonsden](#) (**1000+** users), the online hub for all student activities
- 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](#)
- Built CI/CD pipeline using **Docker**, **Bash**, and **GitHub Actions**

### SOFTWARE ENGINEER INTERN

#### Zhuhai Freeview Ltd.

July 2023 - August 2023 | Zhuhai, Guangdong, China

- Automated dynamic **Vue** generation for various hospital devices
- Built high performance PDF generation service using **Go**

## PROJECTS

- [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.
- [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.

## SKILLS

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