

EXPERIENCE

Intermediate Backend Developer

Zenhub, Vancouver, Canada

January 2023 – April 2024

- Developed AI-powered features leveraging LLMs, embedding models, and vector databases to enhance system intelligence and UX.
- Trained AI models based on consumer data to further improve accuracy and drive user engagement/adoption rate.
- Streamlined codebase through refactoring efforts, resulting in a more maintainable and scalable architecture.
- Integrated third-party APIs into existing systems to extend product capabilities without reinventing the wheel.
- Implemented performance metrics to quantify the time-saving benefits for customers upon feature adoption.
- Tuned systems (**Ruby on Rails**, **PostgreSQL**) to boost performance.

Infrastructure Systems Engineer

Meta (Facebook), Dublin, Ireland

October 2020 – November 2022

- Deployed firmware across the entire Meta server fleet.
- Monitor Meta server fleet health metrics and resolved production system failures during on-call rotations.
- Spearheaded the development of an internal tooling in **Python** to replace the legacy version, resulting in a significant improvement in performance, scalability and UX.
- Implemented intuitive UI solutions (**React**, **GraphQL**) for internal tooling, streamlining workflows across multiple teams.
- Managed and mentored an intern, overseeing their professional development and contributing to the company's talent cultivation.

iOS Software Developer (Internship)

Ecobee, Toronto, Canada

September 2018 – December 2018

- Won the company-wide hackathon by implementing multi-user support using **Swift** for the iOS app, **Express and Node.js** on the back-end where owners can share home devices with tenants using a one-time-pin verification, customize tenant usage limitations and set tenant expiry dates. The prototype was adopted by the iOS team as a reference for the new smart home feature.
- Collaborated with cross-functional teams to deliver high-quality products on tight deadlines.

Door RFID Security Hack (Hackathon)

- Hacked a building security system by analyzing communication between the door scanner and security controller using an oscilloscope.
- Built a \$5 bug that could be soldered to any scanner to grant entry access and spy on transmission.
- Stored user-entry signature in a Firebase Realtime NoSQL database and hosted a Node.js backend service on an AWS EC2 instance.
- Wrote an iOS app with BLE and proximity sensor that unlocks the door by sending details over the security system using the bug to hi-jack communication lines.

EDUCATION

Bachelor of Science in Mathematics

University of Waterloo, Waterloo, Canada, Graduated: May 2020

Lester Lim

Software Engineer

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PROFICIENT TECH

Python | Ruby on Rails

PostgreSQL | Docker | MongoDB

FAMILIAR TECH

Python | C# | Unity XR | JavaScript

PHP Hack | Swift | ML | LLMs

Embeddings | Vector Databases

GraphQL | React | React Native

MySQL | AWS | Azure | Kubernetes

Redis | RabbitMQ | Kafka

ABOUT ME

I love solving problems through software engineering. After studying computer science at the University of Waterloo, I started my professional career in 2019 as an Infrastructure Systems Engineer at Meta. While I am most proficient in backend development, I've experienced various fields of software engineering throughout my career – e.g. deploying software at scale, building AI-powered services, building mobile apps, UI design and tinkering with IoT products. During my free time, I enjoy working with AR/VR as a hobby.

LANGUAGES

English (Native)

Chinese (Intermediate)

Japanese (Intermediate)

Please contact me for references.