

# LESTER LIM

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## SKILLS

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- Python, Ruby, JavaScript, C#, Rails, Swift, GraphQL, TypeScript, PostgreSQL, MySQL, MongoDB, Git
- Node.js, React, HTML, CSS, React Native, Unity XR, Machine Learning, PyTorch, LLM, Vector DB
- AWS, Kubernetes, Docker, Redis, Kafka, Elasticsearch, Prometheus, Grafana, Jenkins, gRPC, Protocol Buffers
- Linux, Microservices, Distributed Systems, Systems Design, Backend, Full-Stack, Prompt Engineering

## WORK EXPERIENCE

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### **Zenhub:** Backend Software Engineer

01/2023 - 04/2024

- Developed an API client for the Ruby on Rails backend to communicate with the llama.cpp server, enabling rapid AI feature development by other team members.
- Enhanced performance of a feature by optimizing clustering of over 50 million dataset entities, through utilizing AI embeddings and Qdrant vector database.
  - Resolved thousands of Sentry errors, increased feature load time by 10x and improved grouping accuracy, resulting in a significant increase in feature adoption.
- Developed solutions to track performance metrics for newly released features, allowing quantification of customer time savings per week, significantly aiding in converting trial customers to paid subscribers.
- Identified resource-intensive issues with the front-end markdown library which caused janky performance in the markdown editor. Resolved this issue by implementing a backend markdown parser in Ruby on Rails.
- Frequently engaged in technical debugging calls with major customers, directly improving user satisfaction.

### **Facebook/Meta:** Infrastructure Systems Engineer

10/2020 - 11/2022

- Designed a comprehensive automation pipeline covering firmware ingestion, orchestration, and fleet-wide distribution, increasing the speed of firmware deployments by 20%, enhancing reliability by reducing human error incidents, and streamlining the overall deployment process to a fleet of over 500,000 servers.
- Developed a user-friendly interface for internal tools, streamlining workflows across multiple teams.
- Monitored fleet health metrics and resolved production system failures during on-call rotations.
- Managed and mentored an intern, overseeing their professional development.

### **Ecobee:** iOS Software Developer Intern

09/2018 - 12/2018

- Won the company hackathon by developing a prototype system that allows users to share access to smart devices within a single home. Extended the iOS app interface and built the backend using Express and Node.js. The prototype served as a foundation reference for the Ecobee smart home concept, influencing subsequent product development and enhancing team innovation efforts.
- Developed the new navigation flow and home screen, enabling the app to launch ahead of schedule.

## PROJECTS

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### **Door RFID Security Hack**

- Analyzed door scanner communication using an oscilloscope and created a \$5 bug to intercept signals.
- Stored user-entry signatures in MongoDB and hosted a Node.js backend on an AWS EC2 instance.
- Built an iOS app using BLE and proximity sensing to unlock doors by hijacking communication lines.

## EDUCATION

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### **University of Waterloo, Ontario, Canada**

09/2015 - 05/2020

*B.S. Computer Science, Certificate: Mathematics*