LESTER LIM

☏ (778) 239-0073 | ✉ lesterlimwh@gmail.com | in linkedin.com/in/lesterlimwh

SKILLS

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

WORK EXPERIENCE

Zenhub: Intermediate Backend Developer   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

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

University of Waterloo, Ontario, Canada   09/2015 - 05/2020

B.S. Computer Science, Certificate: Mathematics