LESTER LIM

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SKILLS

- Python, Ruby, JavaScript, C#, Rails, Swift, GraphQL, TypeScript, PostgreSQL, MySQL, MongoDB, Git
- Node.js, React, HTML, CSS, FastAPI, Unity XR, Machine Learning, NLP, PyTorch, LLM, Vector Database
- AWS, Kubernetes, Docker, Redis, Kafka, RabbitMQ, ELK, Prometheus, Grafana, Jenkins, gRPC, Thrift, OAuth
- Linux, Microservices, Distributed Systems, Systems Design, Backend, Full-Stack, CI/CD, Prompt Engineering

WORK EXPERIENCE

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 UI 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.

Facebook/Meta: Infrastructure Systems Engineer Intern   06/2019 - 09/2019

- Developed a full-stack web application that resolves the complex metadata relationship between firmware, hardware components and server models, providing engineers and automation an efficient way to make customizable queries for complete hardware information.

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.

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