Larry Mai

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EXPERIENCE

Mercor Remote
Software Engineer April 2025- Present

- Developed automated **Python** setup scripts for over **100+ GitHub repositories**, enabling reproducible, docker containerized environments pinned to historical commits aimed to train LLMs.
- Achieved **90–100% test coverage** across selected issues by writing and optimizing Pytests with custom flags, improving LLM patch verification accuracy.
- Reduced environment setup time by **70%** via streamlined Docker workflows and dependency resolution pipelines.

Corning Milpitas, CA
Software Engineer I (Wireless) Sep 2022-Aug 2024

- Developed and tested Layer 3 networking stack features for 5G radio access networks, reducing deployment time by 30% and improving connection reliability by 25% for small-cell technologies in **C**.
- Designed system alarms and call performance reports in **C** that decreased network downtime by 18%, and implemented LTE subscriber redirection that improved handover success rates by 22%.
- Managed and optimized 15+ developer environments and servers (WRCP, Supermicro), reducing configuration time by 40% and cutting network setup time from 3 days to 4 hours.
- Created and executed 200+ automated test cases for Qualcomm and Samsung chipset compatibility, increasing test coverage by 35% and identifying 28 critical integration issues before production.
- Successfully integrated 3 new vendor 5G core systems into existing network architecture, maintaining 99.9% service availability during transition and reducing operational costs by 15%.

Prussian Analytics San Francisco, CA
Software Engineering Intern Jun 2021- Sep 2021

- Built a **Django** and **React** B2B web application to provide precise investment analytics to over 10 companies.
- Implemented **Python**-based fuzzy search algorithms with over 90% accuracy for financial risk analysis and recommendations.
- Achieved 99.9% uptime after migrating codebase to an **AWS** serverless architecture including **AWS Lambda**, **EC2**, and **S3**.
- Utilized **MySQL** and **AWS Aurora DB** for data querying and ran machine learning models with over 90% accuracy to analyze over 100 trends in venture capital revenue and growth.

PROJECTS

Monitoring Application March 2025

- Developed a command-line interface (CLI) tool to monitor product availability across multiple major retail sites including Target, Costco, and Best Buy.
- Integrated with public and unofficial APIs to fetch product data and parse JSON responses for real-time stock status for over 1000 products.

SKILLS

Languages: Python, C/C++, Java, HTML, CSS, Javascript, SQL, Golang, Typescript
Tools: Git, UNIX/Linux, NumPy, OpenCV, Pandas, Sklearn, mySQL, Docker, React, Django, AWS, Jenkins, Agile, Scrum, Eagle, PCB Design, CAD, SkFuzzy, GCP, Kubernetes, Azure, Jira, Confluence, Postman, Bitbucket
Expertise Areas: 5G Wireless, Machine Learning, AI, Computer Vision, Full-Stack Development, Data Science, Embedded Systems, API design (REST), Operating Systems, CI/CD, Cloud Infrastructure, Data Structures, SDLC, Algorithms, Data Modeling, Distributed Systems, Cloud Services, DevOps, High Performance Computing,

EDUCATION

University of California, Santa Barbara Class of 2022
B.S. in Computer Engineering