Jonathan Jiang

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Summary

Backend Engineer with 3+ years of experience designing scalable distributed systems and optimizing high-performance APIs. Strong background in algorithms and system design, with a track record of reducing response times by 40% and improving system uptime by 30%. Experienced in building CI/CD pipelines, infrastructure automation, and observability using modern DevOps tools. Committed to performance, reliability, and clean, maintainable architecture.

Education

Master of Science in Computer Science   Graduated: Dec 2024
San Jose State University, San Jose, CA

B.S. in Mathematics-Computer Science   Graduated: Jun 2018
University of California, San Diego, CA

Experience

DevOps/SRE Engineer   Sep. 2021 – Jul. 2022
Jubo Health Technologies Inc.   *Taipei, Taiwan*

- Redesigned a Go-based RESTful API, achieving a **40%** reduction in response time through SQL optimization and algorithm enhancements.
- Refactored and developed a distributed backend server to improve scalability, maintainability, and testability by removing state and applying interface segregation.
- Built and optimized CI/CD pipelines using GitLab CI/CD, GCR, and ArgoCD to streamline deployments and improve workflows.
- Implemented Grafana and Prometheus dashboards, improving system uptime by **30%** through proactive monitoring and alert handling.
- Maintained Kubernetes clusters and provided SRE support by debugging and resolving system issues to ensure high availability and performance.

Software Engineer   Jan. 2021 – Aug. 2021
Skyline Worldwide Limited   *Taipei, Taiwan*

- Developed backend services for mobile games to support high concurrency using Netty's asynchronous I/O model.
- Contributed to internal documentation to improve clarity and team knowledge sharing.

Software Engineer   Nov. 2018 – May 2020
Teradata Corporation   *San Diego, CA*

- Wrote and maintained core database system components in **C and C++**, contributing to performance-critical features of the Teradata Database.
- Analyzed source code to identify root causes of defects and completed Discrepancy Reports (DRs).
- Implemented software fixes, conducted regression testing, and merged stable changes into the production codebase.
- Collaborated with internal and external teams during on-call rotations to resolve production issues efficiently.
- Assisted the support engineering team in reducing average incident resolution time by **10%** through expert-level debugging and source code investigation.

Technical Skills

Languages: Go, C/C++, Java, JavaScript, Python, SQL, Bash
Backend & Infrastructure: Docker, Kubernetes, ArgoCD, GitLab CI/CD, Prometheus, Grafana, Nginx, Linux/Unix
Web & Frontend: React, Tailwind CSS
Databases: PostgreSQL, MySQL, Teradata, Amazon DynamoDB, Redis, Apache Hadoop
Cloud Platforms: AWS, GCP
Networking & System Tools: GNS3, Wireshark, VirtualBox
Coursework: Data Structures & Algorithms, Operating Systems, Cloud Computing, Computer Networks, Database Systems, Information Security, Machine Learning, Mobile App Development, OOP, Computer Architecture

Publications

Multimodal Techniques for Malware Classification   2025

- Jonathan Jiang, Mark Stamp
- *arXiv preprint*, arXiv:2501.10956