Jonathan Jiang

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 github.com/johnjiangtw0804

Programming Languages: C/C++, Go, Java, JavaScript

EXPERIENCE

Instructional Student Assistant – Information Security Aug. 2023 – June 2024
San Jose State University *San Jose, CA*

- Mentored students on course material and final projects to enhance understanding and academic performance.
- Evaluated assignments and papers, providing constructive feedback.
- Led weekly discussion sessions to clarify complex topics, reinforce key concepts, and promote collaborative learning.

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

- Redesigned a **Go**-based RESTful API, reducing response time by **40%** through SQL and algorithm optimization.
- Refactored a distributed backend server to enhance scalability 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 high-concurrency backend services for mobile games using **Java**'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 performance-critical database system components in **C/C++** as part of the Teradata core engine.
- 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.
- Reduced incident resolution time by **10%** by assisting the support engineering team with expert-level debugging and root cause analysis.

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

TECHNICAL SKILLS

Web & Frontend: React, Tailwind CSS, HTML

Backend & Infrastructure: RESTful APIs, gRPC, Protobuf, Docker, Kubernetes, GitLab CI/CD, ArgoCD, Linux/Unix, Git

Monitoring: Prometheus, Grafana

Databases: PostgreSQL, MySQL, Redis, Teradata, DynamoDB, Hadoop

Cloud Platforms: AWS, GCP

Tools & Networking: GNS3, Wireshark, VirtualBox

ADDITIONAL INFORMATION

Multimodal Techniques for Malware Classification 2025

- Published with Mark Stamp in *arXiv preprint*, available at: arXiv:2501.10956

Portfolio Website

- jonathan-jiang-portfolio.vercel.app – Showcases personal projects, backend work, and research highlights.

LinkedIn Profile

- linkedin.com/in/jonathan-jiang-0a4ab9b9 – Contains full career history, endorsements, and additional work context.