

Diamond Dinh

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EDUCATION

California State University, Fullerton
Bachelor of Science in Computer Science

Fullerton, CA
May 2024

WORK EXPERIENCE

Google Sunnyvale, CA
Software Engineer Intern May 2023 - August 2023

- Developed a high-performance, parallel, and distributed pipeline using Go and Apache Beam to reconcile massive internal log databases with Certificate Transparency logs.
- Improved the security of the certificate issuance pipeline by ensuring the authenticity of certificates issued by Google and preventing missing entries in Certificate Transparency logs.
- Achieved exceptional efficiency, with the pipeline processing millions of log entries in under a minute and running at regular intervals for ongoing security assurance.

Google Seattle, WA
STEP Intern May 2022 - August 2022

- Rewrote and modernized a Kubernetes node monitoring tool in Go and integrated it with internal infrastructure and telemetry collector for real-time tracking and performance analysis.
- Led the redesign and development, collaborating with the original team to ensure objectives were met.
- Achieved more reliable system monitoring with better error handling, consistent status reporting to multiple outputs, and valuable telemetry for internal dashboards, reducing on-call resolution time.


ShiHoYa Inc. Remote
Backend Developer Feb 2019 - Sep 2020


- Restructured and refactored Go codebase for improved maintainability and adherence to style guides.
- Designed and implemented an automatic CI/CD pipeline for deploying latest releases to AWS EC2 instances using Nix, enhancing development speed and enabling rapid testing by other teams.


LEADERSHIP

Association for Computing Machinery at CSUF | *Dev Team Lead* August 2023 - Present
Intercollegiate Programming Competition (ICPC) | *Team Lead* October 2023

PROJECTS

Dissent | Go, C, GTK4 [diamondburned/dissent](https://github.com/diamondburned/dissent) 
Native Discord chat client app featured by GNOME with 1,000+ stars on GitHub.

acm-aws | Terraform, NixOS, Libvirt, QEMU, GitHub Actions, CI/CD [acmcsufoss/acm-aws](https://github.com/acmcsufoss/acm-aws) 
Infrastructure-as-code for ACM at CSUF with CI/CD pipelines for AWS and bare-metal.

Layover Party | Python, FastAPI, OpenAPI, Flutter [layover.party](https://github.com/layover.party) 
Full-stack web/mobile application to match people with long layover flights, won LAHacks 2023.

SKILLS

Languages: Go, Bash, JavaScript, TypeScript, Nix, C, C++, Python, Deno, SQL, HTML, CSS, Svelte, Protobuf
Databases: PostgreSQL, SQLite, MariaDB, BadgerDB, Redis, InfluxDB
Cloud/Infra: Terraform, AWS, GitHub Actions, GitLab CI, Prometheus, Grafana, Apache Beam, Telegraf