

Diamond Dinh

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EDUCATION

California State University, Fullerton
Bachelor of Science in Computer Science

Fullerton, CA
May 2024

WORK EXPERIENCE

Association for Computing Machinery at CSUF
Dev Team Lead

Fullerton, CA
August 2023 - Present

- Led numerous workshops (e.g., REST API) to help members learn new technologies and best practices.
- Implemented a CI/CD pipeline for our servers, reducing deployment time and increasing reliability.

Google
Software Engineer Intern

Sunnyvale, CA
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
STEP Intern

Seattle, WA
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.
Backend Developer

Remote
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.

PROJECTS

Dissent | Go, C, GTK4

[diamondburned/dissent](https://github.com/diamondburned/dissent) 

Native chat application made by reverse-engineering Discord with 800+ stars on GitHub.

acm-aws | Terraform, NixOS, GitHub Actions

[diamondburned/acm-aws](https://github.com/diamondburned/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 

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, SQL, HTML, CSS

Databases PostgreSQL, SQLite, MariaDB, BadgerDB, Redis, InfluxDB

Cloud/Infra Terraform, AWS, GitHub Actions, GitLab CI, Prometheus, Grafana, Apache Beam, Telegraf