

# Diamond Dinh

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## EDUCATION

**California State University, Fullerton**  
*Bachelor of Science in Computer Science*

Fullerton, CA  
May 2024

## WORK EXPERIENCE

**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.

## LEADERSHIP

**Association for Computing Machinery at CSUF** | *Dev Team Lead*  
**Intercollegiate Programming Competition (ICPC)** | *Team Lead*

August 2023 - Present  
October 2023

## PROJECTS

**Dissent** | Go, C, GTK4

[diamondburned/dissent](#) 🌐

Native Discord chat client app featured by GNOME with 800+ stars on GitHub.

**acm-aws** | Terraform, NixOS, GitHub Actions

[acmcusufoss/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, Node.JS, Deno, SQL, HTML, CSS

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

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