

# Diamond Dinh

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## EDUCATION

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

Graduating May 2024  
Fullerton, CA

## EXPERIENCE

### Google

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

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 the 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

Feb 2020 - Sep 2019

- 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

**gtkcord4** | C, Go, GTK4

[libdb.so/gtkcord4](https://libdb.so/gtkcord4)

GUI chat apps made by reverse-engineering Discord with over 1100 stars on GitHub.

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

[libdb.so/acm-aws](https://libdb.so/acm-aws)

Infrastructure for ACM at CSUF with CI/CD pipelines and automatic deployment.

**arikawa** | Go

[libdb.so/arikawa](https://libdb.so/arikawa)

Discord library with idiomatic Go and modular structure, having over 400 stars on GitHub.

**Layover Party** | Python, FastAPI, OpenAPI, Flutter

[layover.party](https://layover.party)

Mobile app to match people with layover flights, won LAHacks 2023 Travel category.

## TECHNICAL SKILLS

**Languages** Go, Bash, JavaScript, TypeScript, Nix, C++, SQL, HTML, CSS

**Technologies** Linux, Git, Nix, Docker, Kubernetes, PostgreSQL, SQLite, CI/CD, OpenAPI, Apache Beam, Grafana, Telegraf, InfluxDB