# Diamond Dinh

✉ jobs@libdb.so | ⌨ diamondburned | 🔗 https://libdb.so | 💼 Diamond Dinh

## EDUCATION

**California State University, Fullerton**                                    Fullerton, CA
*Bachelor of Science in Computer Science*                                        *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 ⌨
Native Discord chat client app featured by GNOME with 1,000+ stars on GitHub.

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

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

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