Diamond Dinh

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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 800+ 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