

# Dennis Lustre

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## EDUCATION

### University of California, Irvine

September 2020 - June 2024

Bachelor of Science in Computer Science

Irvine, CA

- **GPA:** 3.63/4.0 (8x Dean's List)
- **Leadership & Involvement:** ICS Student Council Projects Committee, FUSION (Filipinx Undergraduate Scientist-Engineers in an Organized Network)
- **Courses:** System Design, Data Structures & Algorithms, Intermediate C++

## EXPERIENCE

### Software Engineer

March 2025 - Present

Fuerte (Startup)

Hybrid

- Joined as 1st engineer to develop a **React Native** mobile app for networking and event scheduling in the healthcare industry, working closely with a lean startup team to implement new features in sprints.
- Created a streamlined CI/CD workflow with **GitHub Actions** and **AWS CLI**, enabling rapid product iterations, automated E2E tests, and production deployments with minimal manual intervention and zero downtime.
- Implemented real-time features with **Pusher**, driving user engagement by displaying instant feedback for in-app messaging, event updates, and other user-to-user interactions.
- Utilizing **LogRocket** and **Sentry** for troubleshooting bugs and shipping fixes to production same day.

### Software Developer

May 2024 - November 2024

Boundary Remote Sensing Systems (Startup)

Remote

- Built an automation pipeline in **Python** to generate reports with data visualizations tailored to geospatial data.
- Designed and implemented a **React** app for analyzing 3D geospatial data by integrating **Cesium** and interfacing with backend services using **Zustand**.

### Software Engineer Intern

July 2023 - July 2024

Thaddeus Resource Center

Remote

- Migrated a legacy Webflow app to **Next.js**, halving website costs.
- Managed a team of 6 web developers and accelerated their development by building a CI/CD pipeline, automating tests, builds, and deployments for staging and production using **GitHub Actions**.
- Assisted business operations by developing admin dashboards with **React** and **Firebase**.

## PROJECTS

### Kafka Broker Implementation | *Rust* | [GitHub](#)

- Developed a Kafka broker that supports message consumption and partition listing.

### Gesture-Controlled Robot Arm | *C++*, *Arduino* | [GitHub](#)

- Led development of embedded software for a gesture-controlled robot arm using **Arduino** microcontrollers, Bluetooth modules, and flex sensors.
- Won 1st place and 2 additional awards at the FUSIONCon competition: **Sponsor's Choice** and **Most Innovative Design**.

### Redis Implementation | *Elixir* | [GitHub](#)

- Implemented a Redis server with support for RDB persistence and replication.

### Geospatial Web Game | *TypeScript*, *React.js*, *Tailwind CSS* | [GitHub](#)

- Developed a browser game in 24 hours, utilizing a reverse geocoder to generate geospatial clues for players to guess Orange County cities.
- Won 2 awards at Data@UCI's Datathon competition: **People's Choice** and **Best Use of Melissa Data API**.

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, TypeScript, C, C++, C#, Java, OCaml, HTML

**Technologies:** PostgreSQL, Node.js, Linux, Docker, AWS

**Other:** Visual Studio, Bash Shell Scripting, Powershell, GitLab, Agile, Scrum, Jira (Kanban)