

# Jeremiah Soe

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## EDUCATION

### University of California, Irvine

Irvine, CA

*Bachelor of Science in Computer Science, Minor in Informatics*

*Expected June 2026*

- *Relevant Coursework:* Data Structure Implementation & Analysis, Design & Analysis of Algorithms, Information Retrieval, Intro to Data Management, Intro to Artificial Intelligence, Intro to Security and Privacy

## EXPERIENCE

### Software Developer - UCI ICS Student Council

Apr. 2025 – Present

*University of California, Irvine*

*Irvine, CA*

- Collaborating with a team of 8 to develop and maintain full-stack features for **PeterPortal**, a widely used academic planning tool at UCI, using **React**, **TypeScript**, **SASS**, **PostgreSQL**, **Drizzle ORM**, and **tRPC**.
- Refactored and redesigned the course/professor review form, improving layout structure and text readability while modernizing a legacy UI for long-term maintainability.
- Implemented support for importing AP credits from Zot4Plan planners into PeterPortal, improving continuity for students migrating from a legacy planning tool.

### Chair of Public Relations - UCI ICS Student Council

Jul. 2024 – Jul. 2025

*University of California, Irvine*

*Irvine, CA*

- Led a team of 7 to manage the club's social media presence, delegating tasks to ensure timely execution.
- Coordinated with other committees to create and promote announcements for weekly events such as alumni Q&As and a web development hackathon with over **240 sign-ups**, ensuring consistent communication across platforms.

### Learning Assistant - ICS 33: Intermediate Programming with Python

Sep. 2024 – Dec. 2024

*UC Irvine Donald Bren School of Information and Computer Sciences*

*Irvine, CA*

- Supported **over 200 students** with advanced Python programming concepts, including unit testing (**Pytest**), object-oriented design, recursion, databases (**SQLite**), functional programming, and decorators.
- Collaborated with graduate teaching assistants to clarify challenging topics such as asymptotic analysis, generator usage, and database interactions, ensuring consistent student support during lab sessions.

## PROJECTS

### Quote Book Bot | *Rust, Docker, PostgreSQL, AWS, Github Actions*

Jul. 2025 - Present

- Built a Discord bot in **Rust** for logging and tracking quotes, utilizing the *Serenity* library and *Poise* framework.
- Designed a **PostgreSQL** backend in *SQLx* and integrated the *Notion API* to sync quotes to a Notion database.
- Implemented a CI/CD pipeline with **Github Actions** to automate **Docker** builds and continuous deployment to an **AWS EC2** instance.

### Fabflix | *Java, JavaScript, Apache Tomcat, MySQL, AWS, GCP, Docker, Kubernetes*

Jan. 2025 – Mar. 2025

- Developed a full-stack movie browsing site using **JavaScript**, **HTML**, **CSS**, **Apache Tomcat**, and **MySQL**.
- Engineered a high-availability database architecture by implementing **MySQL Primary-Secondary replication** on a **load-balanced Tomcat/MySQL cluster** across **AWS** and **Google Cloud** instances, ensuring data consistency and availability.
- Containerized the application using **Docker** and orchestrated deployment with **Kubernetes** on **AWS**, implementing a **multi-service architecture with session persistence**.

### Sprite Type | *Next.js, React, MongoDB, Tailwind CSS*

Jan. 2025

- Developed a Studio Ghibli-themed typing test web game during a 36-hour hackathon, featuring animated custom selectable character sprites and real-time WPM tracking.
- Built and deployed a full-stack web app using **Next.js** for server-side rendering and API routing, **MongoDB** for database management, and **Tailwind CSS** for styling, hosted on **Vercel**.
- Integrated functionality to set WPM goals and provide feedback on target achievement.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, Rust, HTML, CSS, JavaScript, TypeScript, C, C++, Swift, Dart, SQL

**Libraries & Frameworks:** React, Next.js, Node.js, Tailwind CSS, SwiftUI, Flutter, Drizzle ORM, Spring, Pytest

**Technologies:** PostgreSQL, MySQL, SQLite, Firebase, MongoDB, Github Actions, Docker, Kubernetes, AWS, Google Cloud, Apache Tomcat, Apache Maven