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**, and **tRPC**.
- Refactored and redesigned the course 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 between planning tools.

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, 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

Echo | *Next.js, NestJS, PostgreSQL, Prisma, shadcn/ui* — Jun. 2025 - Present

- Developing a full-stack Spotify analytics platform to visualize user listening habits.
- Utilized the Spotify Web API to build a scalable backend using **NestJS**, implementing secure token handling and relational data models for tracks, artists, and audio features using **Prisma** and **PostgreSQL**.
- Designed a modern frontend using **Next.js** and **shadcn/ui**, including a login interface and interactive dashboard.

Fabflix | *JavaScript, Apache Tomcat, MySQL, AWS, GCP, Docker* — 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-replica replication** on a **load-balanced Tomcat/MySQL cluster** across **AWS** and **Google Cloud**, 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** for scalability.

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** for scalability.
- Integrated functionality to set WPM goals and provide feedback on target achievement.

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, Swift, Dart, SQL, HTML, CSS, JavaScript, Svelte, TypeScript
Frameworks: React, Next.js, Node.js, Tailwind CSS, SwiftUI, Flutter, SvelteKit, Spring, Pytest
Technologies: PostgreSQL, MySQL, Firebase, MongoDB, AWS, Google Cloud, Apache Tomcat, Docker, Kubernetes