

EDUCATION

California State University, Long Beach

B.S. Computer Science

Long Beach, CA

Expected: Dec 2026

SKILLS

Frontend: React.js, Next.js, HTML, CSS, Tailwind CSS, JavaScript, TypeScript

Backend: Node.js, Express.js, FastAPI, RESTful APIs, GraphQL, Webhooks, Websocket

Languages & Tools: Python, Java, C/C++, SQL, C#, Git, GitHub Actions, Playwright, Linux, Bash, CI/CD, Agile, .NET, Docker

EXPERIENCE

DFM Europe

Ho Chi Minh City, Vietnam

Software Engineering Intern

May 2026 – Aug 2026

- Engineered a **Python/FastAPI backend** for the ATN Drawing system, automating the conversion of **3D engineering models into precise 2D technical drawings** for construction industry applications.
- Integrated **OpenAI API** into the **FastAPI** service to intelligently scale 2D output, maximizing sketch paper utilization and improving drawing precision.
- Developed an **AI-powered isometric view generation** feature using the OpenAI API, producing dimensionally accurate projections that optimize space usage on technical sketch sheets.

AI Club at CSULB

Long Beach, CA

Project Manager

Jun 2026 – Present

- Led planning and coordination for a faculty-mentored **biometric sensor research project** investigating heat, humidity, and alcohol sensors on human subjects, defining project scope, milestones, and team responsibilities.
- Conducted literature research on **wearable sensor technologies and physiological data collection**, synthesizing findings to guide the team's technical direction and experimental design.

California State University, Long Beach

Long Beach, CA

Instructional Student Assistant

Aug 2025 – Present

- Graded Python assignments, labs, and exams** on computer arithmetic and matrix computations, providing feedback on correctness, efficiency, and code quality while maintaining consistent rubrics.

ACM at California State University, Long Beach

Long Beach, CA

Webmaster

Jan 2026 – May 2026

- Led the redesign and redevelopment of the ACM at CSULB landing page using **Next.js**, improving usability, responsiveness, and visual consistency across the site.
- Designed and implemented new dashboard features enabling users to upload and manage images, integrating **Next.js frontend components with backend APIs** for seamless data handling.

PROJECTS

[CrisisLine AI](#) | *Next.js, FastAPI, Firebase, Docker*

- Engineered a real-time multi-party chat system using **Next.js and Firebase**, synchronizing communication between client, AI agent, and counselor with low-latency state management.
- Implemented a **FastAPI transcription service** to process recorded call audio via **AssemblyAI (STT)**, generating structured transcripts for dashboard visualization and GPT-4o context integration.

[911 Operator Assistant](#) | *Next.js, Tailwind CSS, FastAPI, Google Maps API*

- Collaborated in a **team of three** to design, integrate, and deploy a **911 Operator Assistant dashboard**, earning the **Best Overall Award** for innovation, functionality, and UX out of **40 projects** at Marina Hacks 5.0.
- Connected a **Next.js 15 (App Router)** dashboard to a **FastAPI backend**, enabling real-time, bidirectional data communication between client and server.
- Built an **interactive incident visualization map** with the **Google Maps JavaScript API**, achieving 100% accurate location markers and improving operator situational awareness by 30%.

HONORS & AWARDS

- Best Overall Award (1st Place)** – BeachHacks (2025)
- Best Overall Award (1st Place)** – Marina Hacks 5.0 at CSULB (2025)