

Daniel Lov

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Objective

Seeking a software engineering internship to contribute to innovative development projects and solve complex problems, while expanding coding skills. A passion for refining code bases and applying academic knowledge to deliver impactful solutions in a dynamic, forward thinking environment.

Education

University of California San Diego, B.S. Computer Science (GPA: 3.62)

Sept. 2023 - June 2026 (Expected)

- Chancellor's Scholarship Awardee
- Merit-based scholarship that is aimed at high-achieving first generation college students.

Relevant Coursework

- Advanced Data Structures (C++), Software Engineering Principles, Design and Analysis of Algorithms

Skills

Languages: Java, JavaScript, Python, C, C++, Bash, SQL, LaTeX, HTML, CSS

Tools & Platforms: Windows, Visual Studio, IntelliJ, vim, GitHub, Netlify, Auth0, MongoDB

Frameworks & Libraries: React, Node.js, Express.js, Bootstrap, OpenCV2, PyTesseract, WebSockets

Experience

Web Developer Intern @ CAIDA

April 2025 - Present

- Developed and maintained responsive user interfaces in React and JavaScript, leading the redesign of core components and improving load performance by 20%
- Designed and iterated on wireframes and mockups in collaboration with product managers and designers, ensuring alignment between technical feasibility and user experience goals.
- Collaborated with a cross-functional team in Agile environments, participating in code reviews, and daily stand-ups.

Undergraduate Researcher @ Early Research Scholars Program (UCSD)

September 2024 - Present

- Conducted research on Monte Carlo method applications in geometric processing under the supervision of Albert Chern.
- Utilized Houdini FX and Python (NumPy) to generate results and develop examples of potential use cases.

Educational Mentor @ PRISM

June 2025 - July 2025

- Mentored high school students in Python programming, fostering foundational and intermediate coding skills.
- Designed and implemented interactive Jupyter Notebook assignments to promote hands-on, experiential learning.

Projects

Triton Planning 🔄

- Conceptualized and developed a free platform that enables UCSD students to create and share customized degree plans, enhancing the university's standard planning tools.
- Built a responsive single-page application with a React.js and Bootstrap frontend and a Node.js/Express.js RESTful API backend for secure data processing.
- Implemented MongoDB for efficient data storage and retrieval, integrated Auth0 for secure and seamless user authentication, and deployed the application via Netlify for high availability and performance.

Socket Surge 🔄

- Collaborating in a team of five as the primary backend developer to develop a chess-inspired web application for a workshop designed to teach beginner computer science students how to build real-time applications enabled by WebSockets.
- Designing and implementing the backend with Node.js, Express.js, and WebSockets to enable real-time multiplayer interactions. Developing the frontend with React.js and Tailwind to provide a responsive and user-friendly interface.

Personal Interests

East Asian Foreign Language Study

- Currently studying Japanese and intend on pursuing Vietnamese, Mandarin, Cantonese, and Korean for personal cultural enrichment. Interested in international collaboration and culturally-inclusive product design.