Allan Dewey

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EDUCATION

University of California, Santa Cruz Santa Cruz, CA
Bachelor of Science in Computer Science (GPA: 3.7) *Sept. 2022 – Jun. 2026*

Relevant Coursework: Introduction to Data Structures and Algorithms, Computer Systems and C Programming, Introduction to Computer Networks, Computer Systems and Assembly Language, Programming Abstractions in Python, Linear Algebra, Calculus for Science, Engineering, and Mathematics, Discrete Mathematics, Applied Mathematics

TECHNICAL SKILLS

Languages: Python, C/C++, Java, HTML/CSS, JavaScript, Bash, MATLAB, x86 Assembly
Frameworks: React, Angular, NgRx, RxJs, Node.js, Material-UI
Developer Tools: Linux, Git/Github, Docker, VS Code, Asana, Figma
Libraries: NumPy, Pandas, Selenium, BeautifulSoup
Cloud Technologies: Firebase, Firestore, AWS Lightsail, Vercel

EXPERIENCE

Undergraduate Researcher Jun. 2024 – Present
Baskin Engineering *Santa Cruz, CA*
- Conducting research with Professor Qian's research group focusing on computer networks and their applications in AI infrastructure.

Back-End Software Developer Apr. 2024 – Jun. 2024
Tech4Good @ UCSC *Santa Cruz, CA*
- Managed back-end interactions in Firebase's NoSQL database Firestore, using Angular NgRx for state management, and RxJs for handling asynchronous events and data streams.
- Implemented seamless integration between front-end components and back-end systems for efficiency and functionality.

Front-End Software Developer Sept. 2023 – Mar. 2024
Tech4Good @ UCSC *Santa Cruz, CA*
- Developed responsive and interactive user front-end interface components for ExploreCareers, an AI-powered platform that engages career exploration for students using Angular, SCSS, and HTML.
- Configured web components for mobile devices, ensuring full functionality across all platforms.

Software Engineer Intern Sept. 2023 – Oct. 2023
Checkins.AI *Palo Alto, CA*
- Implemented an automatic Python script leveraging Selenium and Beautiful Soup libraries to extract hotel prices and information from competing booking sites.
- Developed and maintained company website using HTML, JavaScript, and CSS for 300+ active users.
- Deployed and configured the web application to a Lightsail instance hosted on an Amazon AWS cloud server.

PROJECTS

SlugTrader | *Java, Spring Boot, RESTful APIs, Angular, TypeScript* Jun. 2024 - Aug. 2024
- Developed a full-stack CRUD application for college students to sell their cars using Spring Boot for the backend and Angular with TypeScript for the frontend.
- Implemented RESTful APIs for efficient database management and seamless client-server communication.
- Integrated image upload functionality into the application, allowing users to upload and display car images alongside their listings.

SlugBudget | *React.JS, Vercel* Feb. 2023 – Feb. 2023
- Developed a fully functioning web application SlugBudget, an innovative food points tracker for UCSC students.
- Implemented a calculation algorithm that determines how many points a student needs to spend before the school year ends.
- Successfully deployed and hosted the platform on Vercel, leading to adoption by over 50+ UCSC students across all grade levels.