

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: Data Structures and Algorithms, Computer Systems and C Programming, 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: C/C++, Python, C#, Java, HTML/CSS, JavaScript, Bash, MATLAB, x86 Assembly

Frameworks: Spring Boot, React, Angular, NgRx, RxJs, Node.js, Material-UI

Developer Tools: Linux, Git/Github, Docker, VS Code, Asana, Figma

Libraries: NumPy, Pandas, Selenium, BeautifulSoup

Databases: MySQL, Firestore

Cloud Technologies: AWS Lightsail, Firebase, Vercel

EXPERIENCE

Undergraduate Researcher

Jun. 2024 – Present

Baskin Engineering

Santa Cruz, CA

- Currently conducting research with [Professor Qian's research group](#) focusing on computer networks and their applications in AI infrastructure.
- Co-authored a research paper "[CALID: Collaborative Accelerate LLM Inference with Draft Model with Filter Decoding](#)" a system designed to improve the efficiency of large language models (LLMs) by combining smaller language models (SLMs) and a novel filtering mechanism.
- Assisted in testing the performance of the models for LLM inference, evaluating the system's accuracy and efficiency across various datasets before final submission.

Software Engineer Intern

Sept. 2023 – Oct. 2023

Checkins.AI

Palo Alto, CA (Remote)

- Implemented an automatic Python script leveraging Selenium and BeautifulSoup 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.

Full-Stack Web Developer

Sept. 2023 – Jun. 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.
- 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.
- Configured web components for mobile devices, ensuring full functionality across all platforms.

PROJECTS

SlugTrader | *MySQL, Java, Spring Boot, RESTful APIs, Angular, TypeScript*

Jun. 2024 - Present

- Currently developing a full-stack CRUD application for college students to sell their cars using Spring Boot (backend) and Angular (frontend).
- Implemented RESTful APIs for efficient database management and seamless client-server communication.
- Connected the Spring Boot application to a relational MySQL database to store car listings and user data.
- Currently working on containerizing the application and pushing it to the cloud.

CERTIFICATIONS

AWS Certified Cloud Practitioner

Sept. 2024

Amazon Web Services (AWS)

- Demonstrates foundational knowledge of AWS services, cloud concepts, security, pricing, and support models.