David Sai

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EDUCATION

University of California, Los Angeles (UCLA)   Expected June 2026
Bachelor of Science in Computer Science   GPA: 4.0

College of San Mateo   May 2019 – August 2021
Certificate of Specialization in Java Programming   GPA: 4.0

EXPERIENCE

Full Stack Software Engineer   September 2023 – Present
Daily Bruin (https://bruinwalk.com/)   Los Angeles, CA
- Developed new pages and database models for dorms and dorm reviews using Django, Javascript, Python, Docker and HTML/CSS on Bruinwalk, a review tool with 5.7 million website views from 50,000+ UCLA students annually
- Collaborated with UI/UX designers to implement features and pages based on mock-ups created in Figma
- Contributed to the team's workflow by participating in code reviews with Github

Software Developer   January 2024 – Present
Creative Labs   Los Angeles, CA
- Designed and built a web app to promote local business and street vendors utilizing React, Typescript, Python, and Firebase, collaborated with a team of 12 UI/UX designers and software developers
- Spearheaded the implementation of Google Maps API functionality, providing users with an interactive feature to explore nearby dining options and restaurants with the ability to place "markers" at their locations

Software Engineer Intern   June 2023 – September 2023
Geothara   Remote
- Transcribed the text from images of documents using Tesseract and Python with 95% accuracy
- Preprocessed thousands of images for Optical Character Recognition using filters, transformations, and noise reduction methods in OpenCV, improving character recognition accuracy by over 15%
- Researched into creating a chatbot using LangChain and a local LLM to answer questions using the information from the documents

Computer Science Teaching Assistant   May 2022 – August 2022
Alphastar Academy   Santa Clara, CA
- Taught Python, C++, data structures, and algorithms to hundreds of students
- Created new curriculum for advanced students, wrote problems incorporating complex observations and algorithms

PROJECTS

Project Rudd   January 2024 – Present
- Collaborated with a team of 10 to create a platformer game involving size shifts and physics-based momentum
- Developed and built the core mechanics of the various enemies in the game using Unity and C#

Coding Wordle   April 2023
- Created a replica of the game "Wordle" with only coding related words using the pygame library in Python

Easy ChatGPT – Chrome Extension   February 2023
- Developed a Google Chrome Extension, allowing users to easily integrate ChatGPT into their browsing experience
- Used Javascript to make callouts to OpenAI API and interfaced with users using HTML and CSS

AWARDS AND ACHIEVEMENTS

United States of America Computing Olympiad – Gold
Four Time American Invitational Mathematics Examination (AIME) Qualification
National Merit Finalist and Bristol Myers Squibb Scholarship Winner
First Tech Challenge World's Qualification

TECHNICAL SKILLS

Languages and Frameworks: C++, Java, Python, SQL, HTML, CSS, Javascript, C#, Django, Typescript, React
Developer Tools: Git, VS Code, Visual Studio, IntelliJ, Eclipse, Unity, Android Studio, Docker
Design: Photoshop, Illustrator, Figma, Canva, UI/UX, Graphic Design, Premiere Pro