

# David Sai

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## EDUCATION

### University of California, Los Angeles (UCLA)

Expected June 2027

*Bachelor of Science in Computer Science*

GPA: 3.95

Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Software Construction (Operating Systems, Scripting, Full-stack Development), Computer Organization (Computer architecture, Low-level Programming, Parallel Computing, Optimization), Multivariable Calculus, Linear Algebra, Differential Equations

## EXPERIENCE

### Information Systems Engineer Intern

June 2024 – Present

*Genentech*

Oceanside, CA

- Implemented physical and virtual OT infrastructure, operating systems, databases, and cybersecurity measures
- Participated in technical design reviews, integration, testing, and documentation for IT/OT systems.

### 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
- Led the integration of Google Maps API, enabling restaurant exploration and marker placement functionality.

### 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

### 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

### Bruin Bowl ([Github Link](#))

March 2024 – June 2024

- Developed Bruin Bowl, a UCLA-themed trivia app using the MERN stack (MongoDB, Express, React, Node)
- Implemented core game features including the game controller, question addition page, and user authentication

### Project Rudd ([Game Link](#)) ([Github Link](#))

January 2024 – June 2024

- 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#

## 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**

## 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