

# Jonathan Ouyang

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## EDUCATION

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

B.S. in Computer Science

Relevant Coursework: Software Engineering, Data Structures, Computer Architecture, Programming Languages

Los Angeles, CA

Expected Graduation: Jun 2027

## ACCOMPLISHMENTS

### Grand Prize Winner, Google Gemini API Developer Competition | [Demo Video](#)

- Awarded Grand Prize of a custom electric DeLorean valued at over \$300K USD as the top project among 4,500+ finalists drawn from 45,500+ developers across 119 countries, earning recognition from Google executives
- Engineered a next-generation computer use agent and AI assistant leveraging Gemini's multimodal capabilities (vision, language, gestures) for streamlined, intuitive application control
- Developed a robust and scalable Python backend, designed for high accuracy and reliability, powering functionalities including AI powered web browsing, real-time comic translation, dynamic code generation, and seamless application control

## WORK EXPERIENCE

### Software Engineer Intern

Jun 2025 – Sep 2025

Amazon

Culver City, CA

- Built and deployed a Java catalog compiler that automated ingest for 7M+ titles/day, replacing manual validation and cutting catalog ingestion errors by 90% for Amazon Studios Export team
- Automated schema validation and metadata transformation across the Prime Video catalog using AWS S3 + Athena, streamlining workflows and eliminating repetitive manual QA
- Authored the integration design and aligned requirements with partner teams at Apple/Google/Samsung and internal stakeholders to unblock production rollout

### Software Engineer

Oct 2024 – Jun 2025

UCLA Daily Bruin

Los Angeles, CA

- Refactored ReactJS frontend and optimized backend infrastructure to reduce bundle size by 40%, cutting response time for the Daily Bruin newspaper's main website by 25% and enabling 60k+ concurrent users during breaking-news spikes
- Collaborated with backend team to deploy a Redis cache (TTL + key strategy) that absorbed ~80% read traffic across 500k+ monthly page views; chose Redis for sub-ms latency and mature eviction policies over alternatives
- Integrated a RAG chatbot with Pinecone and added basic request metrics to track engagement and fallback behavior

### Software Engineer Intern

Jun 2024 – Sep 2024

Sighthound, Inc.

Longwood, FL

- Built a Python object detection/classification tool (Google PaliGemma + OWL VLMs) that boosted labeling throughput 50%, reducing manual effort for the annotation team.
- Resolved critical cross-platform compatibility bugs (Python, shell scripts, Docker) enabling seamless MacOS and Windows functionality, improving software reliability for annotation and computer vision development teams
- Designed and implemented an image augmentation pipeline, resulting in a 6x increase in dataset size and directly contributing to a 5% increase in accuracy of company neural network models

## PROJECTS

### Bruin Bite

- Deployed a campus-wide food rating app adopted by 100+ students within weeks, built in a 5-person team using modular React/Node.js architecture with Golang backend, Docker, CI/CD, and secure REST APIs with JWT auth

### UCLA Course Navigator Website

- Constructed a full-stack web application using React and Vue.js, Node.js, MongoDB, and a RESTful API in backend, enabling UCLA students to plan four-year course schedules and visualize academic progress

## SKILLS

Python, C/C++, Java, JavaScript, TypeScript, Swift, Go, HTML/CSS, React, Next.js, Vue, SQL, Git, Linux/Unix, Docker, Selenium, AWS, Databases, Data Structures & Algorithms, Unit Testing, Agile/Scrum, Machine Learning