

# Daniel Dai

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## EDUCATION

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

Los Angeles, CA

*Bachelor of Science in Computer Science, 3.84 GPA*

*Sep. 2020 – Dec. 2023*

- **Relevant Coursework:** Data Structures, Algorithms, AI/ML, Networks, Operating Systems, Security
- **Activities & Honors:** Association for Computing Machinery (Design Officer), DevX (Developer), LA Hacks (Organizer), Tau Beta Pi Honor Society, Upsilon Pi Epsilon Honor Society

## EXPERIENCE

### Software Engineering Intern

June 2023 – Sep. 2023

*TikTok*

*San Jose, CA*

- Developed a full-stack analytics platform enabling developers to optimize their usage of TikTok's external APIs
- Designed a high-throughput ETL pipeline to process 130M+ daily API call logs stored in Apache Hive databases, leveraging SQL indexing and grouping to optimize complex queries and improve data retrieval speeds
- Implemented a Go-based REST API endpoint utilizing Redis caching to enable low-latency access to analytics
- Built a React and Bootstrap dashboard that uses Recharts to visualize trends through interactive line charts

### Software Engineering Intern

June 2022 – Sep. 2022

*Cox Automotive*

*Irvine, CA*

- Developed a mobile-responsive layout for Kelley Blue Book's Shop Smart module using React, Node.js, and CSS, which increased clickthrough rates by 171% during A/B testing with Optimizely
- Integrated 30+ Cypress end-to-end tests into the CI/CD pipeline using AWS CodeBuild to ensure stable releases
- Deployed Adobe Analytics tags to track ad engagement, providing insights to enhance advertising campaigns
- Conducted load testing of APIs with Apache JMeter to pinpoint performance bottlenecks and improve scalability

### Web Development Intern

June 2021 – Mar. 2022

*BruinShack*

*Los Angeles, CA*

- Rebuilt the apartment listing creation UI using Vue.js and CSS, reducing the average completion time by 40%
- Implemented an image upload component with previewing, reordering, and validation to improve listing quality
- Performed extensive REST API endpoint testing with Postman, ensuring accurate account and listing operations

## PROJECTS

### Grades of Green Learning Management System | *Figma*

Sep. 2021 – June 2023

- Led a team of 8 designers in creating an LMS to empower 670,000+ students to share environmental projects
- Crafted intuitive user flows and high-fidelity prototypes in Figma, focusing on accessibility and responsiveness
- Collaborated cross-functionally to assess frontend options and integration strategies with a WordPress CMS

### Westwood CSS | *HTML, CSS*

Nov. 2020 – June 2021

- Developed a reusable CSS framework to unify visual branding across 8 ACM at UCLA committee websites
- Leveraged SASS and Flexbox to implement a component library consistent with the organization's style guide
- Streamlined development workflows by eliminating redundant frontend code and improving maintainability

### Covalent | *HTML, CSS, JavaScript, React, Next.js, GraphQL, AWS*

June 2020 – May 2021

- Built a React and Next.js web app with icebreaking games like "2 Truths and a Lie" to bond remote teams
- Implemented game mechanics using React components and hooks, enhancing code modularity and performance
- Designed a GraphQL schema to enable real-time interactions, optimizing data retrieval for reduced server load
- Launched on Product Hunt with 300+ upvotes and awarded "Best Large Team" at the 2021 ACM Tech Gala

## SKILLS

**Languages:** HTML, CSS, JavaScript, C, C++, Go, Python, GraphQL, SQL, Bash

**Frameworks:** React.js, Vue.js, Next.js, Node.js, Bootstrap, Tailwind CSS, Cypress

**Tools:** Git, Figma, AWS, Google Cloud, CI/CD (GitHub Actions), Docker, Optimizely, Postman, Redis