Daniel Dai

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EDUCATION

University of California, Los Angeles (UCLA)   Los Angeles, CA
Bachelor of Science in Computer Science, 3.82 GPA   *Expected 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 scalable ETL pipeline to process over 130 million daily API call logs stored in Apache Hive databases, optimizing complex SQL queries to 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.

TECHNICAL SKILLS

Languages: C/C++, HTML, CSS, JavaScript, Go, Python, GraphQL, SQL, Bash
Frameworks: React.js, Next.js, Node.js, Vue.js, Cypress, Bootstrap, Tailwind CSS
Tools: Git, Figma, VS Code, Visual Studio, AWS, CI/CD, Docker, Google Cloud, Optimizely, Postman, Redis