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 Engineer   Feb. 2024 – Present
TikTok   *San Jose, CA*
- Building cross-platform features for developers and users, including APIs, SDKs, and in-app services

Software Engineer 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 Engineer 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
- Conducted load testing of APIs with Apache JMeter to pinpoint performance bottlenecks and improve scalability

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

BruinShack | *HTML, CSS, JavaScript, Vue.js*   June 2021 – Mar. 2022
- 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

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
- 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