Kevin Cao

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EDUCATION

University of California, Riverside   Riverside, CA
Bachelors of Science in Computer Science with Business Applications   *September 2021 – June 2025*
Relevant Coursework: Operating Systems, Data Structures and Algorithms, Software Construction, Artificial Intelligence, Software Engineering, Distributed Systems, Software Testing and Verification, Unix System Administration

TECHNICAL SKILLS

Languages: Python , C++ , JavaScript , TypeScript , Java , HTML/CSS
Frameworks: React , Node.js , Next.js
Developer Tools: Docker , Git , GitHub , Jira , Postman , Maven
Databases/Cloud: Amazon Web Services(AWS) , Google Cloud Platform(GCP) , SQL , PostgreSQL

EXPERIENCE

Software Engineer (Frontend)   December 2023 – Present
Association for Computing and Machinery   *Riverside, CA*
- Collaborated with a cross-functional team of 10+ developers and UX designers to design, build, and deploy a high-traffic website serving **100+** monthly users.
- Engineered functional and reusable React components from Figma design specifications, ensuring high-fidelity implementation and adherence to UX standards.
- Optimized page load speed by **15%** through performance tuning and identification of frontend bottlenecks during Agile sprint reviews, significantly enhancing user experience.

Software Engineering Fellow   June 2024 – September 2024
HeadstarterAI   *Remote*
- Built CI/CD pipelines using **GitHub Actions** to automate testing and deployment processes, accelerating release cycles by **20%** and improving code quality.
- Executed rigorous code reviews for **20+** pull requests , directly contributing to a **30%** reduction in production bugs and elevating overall code quality.
- Reduced page load times through refactoring critical API endpoints, directly enhancing system responsiveness.

Teaching Assistant Lead   September 2019 – September 2022
Kumon Learning Center   *Walnut Creek, CA*
- Spearheaded the transition to online instruction, a strategic initiative that directly increased student retention by **60%** and expanded educational accessibility.
- Instructed **30+** students per session in subjects ranging from elementary mathematics up to college level calculus.
- Onboarded and mentored **5+** new staff members on internal database tooling, accelerating ramp-up time by **40%**.
- Orchestrated targeted academic support sessions and specialized office hours, serving over **200+** students annually

PROJECTS

Style Swiper | *NextJS, TypeScript, Firebase, TailwindCSS*   *GitHub*
- Minimized critical bugs and regressions by **15%** through comprehensive unit testing with **JUnit**, significantly improving software stability and reducing post-deployment issues.
- Architected and implemented secure user authentication via Firebase Authentication, incorporating **OAuth**, **JWT**, and email/password methods.
- Integrated dynamic filtering and sorting features for personalized outfit selections, enhancing UI responsiveness by **30%.**

MatchaNotes | *NextJS, PostgreSQL, AWS(EC2 & S3)*   *GitHub*
- Designed and developed a full-stack web application for reviewing and recommending matcha powders, enabling users to explore flavor profiles, origin, and quality.
- Architected a scalable **PostgreSQL** schema to efficiently support user reviews, ratings, and product metadata, ensuring data integrity and rapid retrieval.
- Deployed application using **AWS EC2** and for high availability handling **100+** user sessions with **99.9%** uptime.