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, Big Data Management, Software Testing and Verification

EXPERIENCE

Web Developer — December 2023 – Present
Association for Computing and Machinery — *Riverside, CA*
- Collaborated with a cross-functional team of 10+ developers and UX designers to build and deploy a high-traffic static website serving **100+** monthly users.
- Developed functional and reusable components in **React** from **Figma** design specifications.
- Participated in weekly Agile scrum meetings, identifying and resolving bottlenecks to improve page load times by **15%** and enhance user experience.

Software Engineering Fellow — June 2024 – September 2024
HeadstarterAI — *Remote*
- Participated in a 10-week intensive software engineering fellowship focused on AI and machine learning.
- Conducted code reviews for **10+** pull requests, improving code quality and reducing production bugs by **25%.**
- Worked in an agile environment, participating in code reviews, stand-ups, and sprint planning to enhance software quality.
- Attended mentorship sessions with engineers from Google, Apple, and Stripe, gaining insights into distributed systems, AI ethics, and software scalability.

Teaching Assistant Lead — September 2019 – September 2022
Kumon Learning Center — *Walnut Creek, CA*
- Organized and developed course plans in collaboration with the lead teacher in order to lead each class session and assign homework.
- Instructed **40+** students per session in subjects ranging from elementary mathematics up to college level calculus.
- Supervised and trained new employees on system databases and data implementation.
- Coordinated events and office hours sessions for the entire center for struggling students.

PROJECTS

Style Swiper | *NextJS, TypeScript, Firebase, TailwindCSS* — Github | Visit
- Developed, a full-stack clothing recommendation web app using Next.js and Firebase, improving personalized shopping experiences.
- Designed and implemented Firebase Authentication, enabling secure user sign-up/login with **OAuth** and **JWT** as well as email/password authentication.
- Integrated dynamic filtering and sorting features for personalized outfit selections, enhancing UI responsiveness by **30%.**

MatchaNotes | *NextJS, PostgreSQL, AWS(EC2 & S3)* — Github | Visit
- Designed and developed a full-stack web application enabling users to review and recommend matcha powders based on flavor profiles, origin, and quality.
- Architected a **PostgreSQL** schema to support scalable user reviews, ratings, and product metadata, ensuring efficient data retrieval and integrity
- Deployed application using **AWS EC2** and **S3** for high availability and media storage, handling **100+** user sessions with **99.9%** uptime.
- Implemented server-side rendering and dynamic routing with Next.js to optimize SEO and deliver fast, responsive user experiences.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, Java, HTML5, CSS, SQL, PostgresSQL
Frameworks: React, Node.js, Next.js, Hadoop, Maven, Apache Spark
Developer Tools: AWS, GCP, Docker, Figma, Git, GitHub, Visual Studio Code, Jira, Postman