

KAI WANG

Senior Software Engineer | Architect

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Skills

JavaScript • TypeScript • ReactJS • NextJS • Clerk • Python • NodeJS • Vercel • AWS • GCP • Docker • Kubernetes • PostgreSQL • MongoDB • Gen AI • Redux • VueJS • NuxtJS • GraphQL • ExpressJS • NestJS • Flask • Django • Fast API • AWS Lambda • AWS DynamoDB • ELK Stack • D3JS • Kafka

Experience

Openxcell | Next-Gen AI Services

Willow Value, AU

Senior Software Engineer | Frontend Lead

06/2024 - Present

- Guided a team of 4+ frontend engineers through the full software development lifecycle, fostering best practices, conducting rigorous code reviews, and ensuring high-quality, maintainable code for AI-driven applications.
- Established and enforced frontend architectural patterns and coding standards (monorepo structures, component libraries), significantly reducing development friction by 15% for AI service integrations.
- Spearheaded the integration of real-time data streaming and WebSockets to provide dynamic updates from AI inference engines, resulting in a 30% improvement in UI responsiveness for live AI monitoring dashboards.
- Collaborated closely with AI/ML engineers and Backend teams to define API contracts (GraphQL/REST) and optimize data transfer protocols, ensuring seamless and efficient consumption of AI model endpoints.

Therify

San Francisco, CA

Software Engineer

02/2021 - 06/2024

- Developed personalized content recommendation algorithms using Python and ML, resulting in a 20% increase in user time spent on the Therify mobile app.
- Designed a data visualization dashboard using TypeScript and D3.js to display real-time advertising campaign performance metrics, enabling dynamic user analysis.
- Collaborated with UX/UI designers to refine the user interface of both mobile and web applications, ensuring a seamless user experience with interactive components built using React/Next.js.
- Optimized server-side APIs and backend data processes using SQL, reducing query times by 40% and improving app responsiveness by 30%.
- Engaged in stakeholder meetings to gather feedback, leading to the incorporation of additional custom report functionalities in the analytics dashboard, significantly improving user satisfaction ratings.

Amazon Web Services (AWS)

San Francisco, CA

Software Engineer

03/2018 - 01/2021

- Engineered and launched critical features for Amazon S3's core storage engine, enhancing data durability and availability for petabytes of customer data, serving millions of requests per second globally.
- Developed and maintained highly scalable, fault-tolerant microservices in Java and Go, managing S3 lifecycle policies and object transitions across storage classes, significantly reducing customer storage costs.
- Contributed to the design and implementation of new S3 API endpoints and event notifications, enabling tighter integration with other AWS services (Lambda and SNS) and expanding developer capabilities.
- Collaborated with S3 product managers, security teams, and customer support to gather requirements, prioritize features, and resolve complex customer issues, driving improvements in service reliability.
- Performed detailed code reviews, identified architectural improvements, and mentored junior engineers on best practices for building ultra-scale distributed systems within the S3 team.

Education

Arizona State University

2017 - 2019

Master's degree, Computer Science

Indian Institute of Technology, Bombay

2012 - 2016

Bachelor's degree, Computer Science