

Alexander Luo

Senior Software Engineer

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Summary

Senior Software Engineer with 7 years of experience designing and delivering scalable, user-centric web applications. Skilled in building end-to-end solutions using React, TypeScript, Java (Spring Boot), Node.js, and modern cloud infrastructure (AWS, ECS, RDS). Proven ability to create responsive, accessible interfaces and architecting robust backend systems that have improved user engagement, reduced load times, and enhanced product performance at scale.

Skills

- HTML, CSS, JavaScript, TypeScript
- React, Angular, Vue.js, Next.js
- Tailwind CSS, MUI, SCSS, LESS
- Node.js, Python, Java, Django, Spring Boot
- REST/GraphQL
- MongoDB, MySQL, PostgreSQL
- React Native, Swift, iOS, Android
- Jest, Cypress, Playwright, Mocha
- Github Action, Jenkins, Circle CI
- AWS, Azure, GCP
- Docker, Kubernetes
- Git, Agile, Jira, Kanban, Confluence

Education

University of Colorado Boulder

Bachelor's Degree in Computer Science
2014 - 2018

Master's Degree

Engineering/Industrial Management
Jan 2020 - May 2023

Work Experience



Indeed

Senior Software Engineer

Aug 2022 - Present

- Built a user-facing job preference feature using React, Next.js, TypeScript, Java with Spring Boot, MySQL, Redis, and Elasticsearch — increased job relevance clicks by 17% by allowing seekers to set role, location, pay, and work-type preferences.
- Improved profile settings UI with responsive design and accessibility enhancements using ARIA — boosted mobile engagement by 22%.
- Developed modular front-end components for job preference forms using React and TypeScript — enhanced profile completion rates by 15% through dynamic inputs for job title, pay range, location, and schedule.
- Refactored front-end architecture to support lazy loading and better component hierarchy — lowered profile page load times by 18%.
- Integrated user preference data into an AI-driven recommendation engine — amplified qualified job click-through rates by 19% with more personalized job feeds.
- Designed and deployed RESTful APIs using Java with Spring Boot to handle structured preference data for over 100 million users — leveraged AWS services including ECS, RDS, and S3 to ensure scalable and secure deployment.
- Partnered with search, recommendations, and machine learning teams to align APIs and data models — decreased irrelevant job matches by 23% and boosted user retention.
- Mentored junior engineers through hands-on code reviews and pair programming — refined code quality and reduced onboarding time.



Seagate

Senior Software Engineer

Jun 2021 - Jul 2022

- Launched a Reliability Metrics Dashboard using React, TypeScript, Angular, and Node.js to streamline HDD and SSD failure rate tracking — cut manual analysis time by 40% through automated reporting.
- Delivered responsive visualizations with Chart.js and D3.js to surface real-time hardware test data — boosted diagnostic clarity and lowered manual data reviews by 30%.
- Maintained high-performance GraphQL APIs using Node.js to support reliability data access — consistently handled over 20,000 weekly queries with sub-second response times.
- Created comprehensive front-end tests using Jest and React Testing Library — ensured accurate input handling and validation across desktop and mobile environments.
- Strengthened alignment between engineering workflows and reliability insights by integrating feedback from QA, data science, and reliability teams — also guided two junior developers on scalable API design and deployment best practices.

Software Engineer

May 2018 - Jun 2021

- Introduced a self-service helpdesk portal using React, JavaScript, TypeScript, Next.js, and MongoDB — support call volume dropped by 35% as users accessed firmware, submitted tickets, and connected with agents without intervention.
- Structured dynamic ticket submission flows with React and TypeScript — incorporated validation, conditional logic, and multi-step uploads to cut average submission time by 30%.
- Assembled a real-time chat experience inside the helpdesk platform using React and Socket.IO — customers gained immediate access to live support without leaving the interface.