Jake Crane

Overland Park, KS | (816) 806-9679 | jakecrane616@gmail.com
jakecrane.com | github.com/jake-crane | linkedin.com/in/jakecrane

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Profile

Senior Full Stack Software Engineer with 11 years of experience building enterprise web applications, most recently payment applications at TouchNet (Global Payments). Strong experience with **React, TypeScript, Java, Spring Boot, REST APIs, and SQL**, taking features from UI through API and database integration and developing shared frontend libraries.

Technical Skills

- **Frontend:** React, TypeScript, JavaScript (ES6+), HTML, CSS, Angular, Redux, React Query, React Router, Zod, Vite, react-intl
- **Backend:** Java, Spring Boot, REST APIs, SQL (PostgreSQL, Oracle, SQL Server), CI/CD
- **Tools/Other:** Git, Jenkins, Docker, Agile/Scrum, Automated Testing (Jest, Jasmine, Karma, JUnit)

Professional Experience

TouchNet – Lenexa, KS
Sr. Software Engineer | Oct 2020 – Present

- Deliver new functionality across multiple TouchNet product lines, building **React/TypeScript user interfaces and Java/Spring REST APIs**.
- Serve as the team's go-to resource for frontend architecture and best practices, guiding new application design and large feature planning, and act as its most active code reviewer.
- Develop and maintain **Java Spring Boot microservices and REST endpoints** for administrative settings, role-based access, cashiering, and refunds, including cash drawer replenishment and paginated payment receipt search by date, amount, and payment method.
- Work with SQL Server and PostgreSQL databases as TouchNet applications migrate to Google Cloud Platform (GCP).
- Build scalable React applications using **TypeScript, React Query, Redux, React Router, React Table, and Zod**, ensuring new features meet WCAG accessibility standards and support multiple languages and locales with react-intl.

- Create and maintain shared npm packages and frontend component libraries used across teams, reducing duplication and promoting consistency across multiple applications.
- Identify and address frontend tech debt, migrating 3 applications from Webpack to Vite, upgrading to ESLint v9, eliminating outdated libraries, and keeping bundle size under control.
- Migrated client-side data flows from Redux toward **React Query** for server-state management and data fetching, simplifying state logic and improving reliability.
- Implement runtime API response validation using **Zod**, catching invalid data from backend services before it reaches the UI.
- Recipient of the Excellence Award (Feb 2025) and the TouchNet Values Award (Dec 2022).

Trip Mate – Kansas City, MO
Front-End Developer | Jun 2020 – Oct 2020

- Built new features and implemented UI enhancements with **React, Redux, and TypeScript** for an internal back-office application.

SS&C Technologies (formerly DST Systems) – Kansas City, MO
Software Developer to Sr. Software Engineer (promoted 3 times) | Jun 2015 – Jun 2020

- Developed and maintained full-stack enterprise applications, building Java REST APIs on the backend and Angular applications on the frontend.
- Researched and prototyped a C# Microsoft Word add-in to replace TinyMCE for letter writing in a web-based workflow app, then saw it through development and client rollout, with support for reusable paragraphs, variables, and images.
- Wrote and optimized SQL queries and stored procedures across Oracle and SQL Server to support application functionality and data requirements.
- Migrated a legacy BPMN application to Angular and bpmn.io, developing responsive interfaces with Angular Material.
- Split a 40+ minute QUnit integration suite into parallel sub-suites by updating the Selenium test runner and Jenkins jobs, reducing overall test time to 15 minutes and improving stability.
- Moved the application CI/CD process to AWS, creating build and deployment specifications and configuring AMIs.
- Facilitated the team's Agile ceremonies (standups, backlog refinement, demos and retrospectives) and kept the sprint backlog organized and on track.
- Mentored interns and junior developers: helped plan their work, checked in regularly, and gave guidance through code reviews and problem-solving sessions.

Education

Bachelor of Science in Computer Science – University of Central Missouri, May 2015