

Sameer Kumar

Expert Software Engineer: front-end platforms, Azure cloud, AI-assisted engineering

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Summary

Software engineer with 15+ years building enterprise web and cross-platform mobile applications, and 8+ years leading engineering teams. Specialist in React-based front-end architecture (micro-frontends, isomorphic rendering, component libraries, accessibility) and the platform around it: Node.js services, Azure cloud migration, CI/CD, security hardening, and Datadog observability. Currently leading AI adoption for engineering teams with Claude Code, agent skills, subagents, MCP and GitHub Copilot, including a 3-day AI training program and a library of reusable agent skills for test generation and design-to-code.

Technical skills

AI engineering	Claude Code, Claude agents and subagents, Agent Skills, Model Context Protocol (MCP), GitHub Copilot, prompt and context engineering, AI-assisted TDD, AI test generation (Playwright, integration tests), Figma-to-React generation, local LLMs (Ollama, LangChain)
Front-end	React (16 to 18), MobX 6, Redux, Next.js, JavaScript (ES2015+), TypeScript, HTML5, CSS3, Sass, Styled Components, Material UI, Tailwind CSS, Bootstrap, AngularJS, jQuery
Architecture	Micro-frontends (runtime and compile-time), isomorphic SSR/CSR, design systems and multi-theme component libraries, multi-brand and multi-language apps, façade/adaptor modules, REST and SOAP-to-REST modernization, microservices
Back-end	Node.js (14 to 24), Express, Java (17 to 25), Spring Boot 3, REST APIs, Postgres, Azure SQL, MySQL, Drizzle ORM
Cloud and DevOps	Microsoft Azure (App Service, API Management, Front Door, Blob Storage, Files, Azure SQL, deployment slots), Azure DevOps Pipelines, Argo CD, Kubernetes, Calico network policy, Docker, Podman, GitHub Enterprise Cloud, Jenkins, WSO2, RHEL, nginx, Netlify
Observability	Datadog (APM, RUM, Synthetics, SLO/SLI dashboards, monitors), Splunk, AppDynamics, Adobe Analytics, Apica, xMatters, Lighthouse
Security and identity	OAuth 2.0, SAML 2.0, JWT, token validation, Okta, Microsoft Entra ID, MFA, SiteMinder, PCI-compliant payment capture, secret management, Fortify, Black Duck, Aqua, Contrast
Testing and accessibility	Jest, Mocha, Chai, Sinon, Jasmine, Karma, Playwright, Vitest, mock servers, load testing, TDD; WCAG, screen reader testing, Accessibility Insights, localization
Build and tooling	Webpack 5, Babel, ESLint, npm, gulp, Git, Bitbucket, SVN, VS Code, Xcode
Mobile	Apache Cordova (PhoneGap), Ionic, jQuery Mobile, EnyoJS, webOS Mojo; iOS, Android and Windows app store publishing; push notifications, QR scanning, maps and GPS

Experience

Delta Dental of California

May 2018 – Present

Expert Software Engineer (Oct 2021 – Present); Senior Software Engineer (Mar 2019 – Oct 2021); Senior UI Developer (May 2018 – Mar 2019). Oakland, CA

- Technical lead for a portfolio of enterprise web applications for internal and external users: architecture, design reviews, code reviews, release management and production health, with no production incident exceeding SLA.
- Led the migration of enterprise applications from on-premises infrastructure to Microsoft Azure (App Service, API Management, Front Door, Azure SQL, Blob Storage), including disaster-recovery exercises and operational runbooks.
- Kept the stack current: React 16 to 18, Node.js 14 to 24, Webpack 5, MobX 6, Java 17 to 25, Spring Boot 3, RHEL 9; retired legacy middleware in favor of REST services and Java microservices.
- Built the observability practice on Datadog: APM, RUM, synthetic monitoring for every environment, SLO/SLI dashboards, alerts and daily health reports; earlier on Splunk, AppDynamics and Adobe Analytics.
- Strengthened security: PCI-compliant card capture, token validation, automated secret management, identity moves to Okta, Entra ID and MFA, and Fortify, Black Duck and Aqua scans in every Azure DevOps pipeline build.

- Led five engineers to deliver two front-end modules three sprints ahead of schedule, and brought average page load under three seconds.
- Wrote shared libraries adopted across many enterprise apps: a configuration-driven OAuth 2.0 module, an analytics module, error handling, and an HTTP client with Azure token integration; built a React + Material UI component library with multi-theme support.
- Built the micro-frontend reference implementation (runtime and compile-time) for the enterprise web platform, covering SSR and CSR trade-offs, analytics and asset loading.
- Found and fixed production memory leaks in Material UI usage and a MobX singleton store; improved load time with lazy loading, gzip and CDN caching after Lighthouse analysis.
- Moved deployments to Argo CD on Kubernetes with Calico segmentation, migrated to GitHub Enterprise Cloud, and cut downtime with rolling restarts, slot swaps and automated production checkout.
- Leading AI adoption: ran a 3-day AI training program, created 7 reusable agent skills (Playwright and integration-test generation, Figma-to-React, UI validation loops, locator generation, ticket creation), introduced context engineering, and trained all engineers on GitHub Copilot.
- Mentored, hired and onboarded engineers; ran a 15-day production-support program and built beginner-to-advanced web courses for new hires.

Cognizant, consultant to Apple

Mar 2016 – May 2018

Senior Associate, Senior Front-End Developer, Sunnyvale, CA

- Built pixel-perfect, accessible, localized web modules in Apple's in-house observable-based JavaScript framework, similar in model to React and Redux.
- Delivered 100+ responsive enterprise email templates that render correctly in Apple Mail, Outlook and Gmail (Zurb Foundation), and PDF templates in XSL-FO.

Stack: JavaScript ES6, Webpack, Node.js, ESLint, nginx, Mocha, Sinon, Chai

Tata Consultancy Services, consultant to HP

Dec 2010 – Mar 2016

IT Analyst, Mobile and Web Application Developer, Pune, India and Palo Alto, CA

- Built cross-platform mobile apps from a single codebase with Cordova for iOS, Android, Windows Phone 8 and Windows 8 tablets; handled signing and publishing to the Apple, Google Play and Microsoft stores, plus in-house distribution.
- Integrated push notifications (APNS, MPNS, WNS), QR scanning, the Twitter API, offline storage, Google Maps and GPS, and HTML5 canvas floor maps with zoom.
- Built UIs in Ionic/AngularJS, EnyoJS, jQuery Mobile and webOS Mojo; wrote Jasmine and Karma tests; tested on real devices with Perfecto; extended Java/Spring REST services on MySQL.

Awards: Star Team (2014), Service and Commitment (2013), Best Team (2012), ILP Kudos (2011)

Certifications

- Build with Claude Code, ByteByteGo (2026)
- Claude Code in Action, Anthropic (2026)
- Introduction to MCP, Anthropic (2026)
- Introduction to Agent Skills, Anthropic (2026)
- Introduction to Subagents, Anthropic (2026)
- Claude 101, Anthropic (2026)
- AI Engineering cohort, ByteByteAI (2025)
- AI Modernization, O'Reilly (2025)
- GitHub Copilot for Developers, O'Reilly (2025)
- Azure Solutions Architect Expert (AZ-305), Microsoft (2023)
- DevOps Engineer Expert (AZ-400), Microsoft (2023)
- Accessibility Fundamentals, Deque University (2023)
- Screen Reader Testing, Deque University (2023)
- Certified SAgile 4 Agilist, Scaled Agile (2023)
- Azure Developer Associate (AZ-204), Microsoft (2021)
- Azure Fundamentals (AZ-900), Microsoft (2020)
- HTML5 with JavaScript and CSS3 (70-480), Microsoft (2012)
- Microsoft Certified Professional (2012)

Languages

English (full professional), Hindi