

Shishir Aithal

Squad Lead | Frontend & Mobile Engineering | Agentic SDLC / AI-DLC

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PROFESSIONAL SUMMARY

Frontend and mobile engineering lead with nearly 9 years of production experience, focused on **React, React Native, TypeScript and JavaScript**, enterprise application delivery, platform-level configuration, and engineering quality. Hands-on experience contributing to and adopting **Agentic SDLC / AI-DLC workflows**, including multi-model code review, quality gates, agent orchestration, task delegation, guardrails, and custom engineering agents. Experienced in leading a team of 8-12, modernizing legacy React Native applications toward PWA architectures, integrating industrial scanning devices, and collaborating with product and cross-functional teams.

CORE STRENGTHS

Frontend: React, TypeScript, JavaScript, Vite, MUI, TanStack, Redux Toolkit

Agentic SDLC: Multi-model code review, quality gates, agent orchestration, task delegation, guardrails, custom agents, AI-DLC

CI/CD & DevOps: GitHub Actions, Jenkins, Azure DevOps, Git, release workflows

Mobile: React Native, Android, iOS, PWA, Zebra/DataWedge, industrial device integrations

Quality: Jest, Cypress, TDD, unit testing, code review, engineering quality gates

Engineering: Node.js/Express, REST APIs, Webpack, Rollup, Re.Pack, Babel, performance optimization, Agile/Scrum

PROFESSIONAL EXPERIENCE

LiSEC automation FZ LLC | Dubai, UAE

Squad Lead | Aug 2025 - Present

- Contribute at platform level alongside project delivery, supporting engineering standards, configurations, development workflows, and cross-project technical alignment.
- Contributed to the internal AI engineering platform with multi-model code-review workflows, engineering quality gates, agent orchestration, and task delegation across day-to-day development.
- Improved existing in-house agents by strengthening orchestration, adding guardrails, refining task delegation, and integrating agentic workflows across development, code review, and CI/CD; adopted by the team/company.
- Led modernization of the legacy LiSEC.prdCtrl React Native application toward a modern PWA architecture using TDD-oriented development practices.
- Lead and support a team of 8-12 engineers through code reviews, technical discussions, quality initiatives, and collaboration with product stakeholders.

Senior Software Engineer | Mar 2022 - Jul 2025

- Built and maintained production web and mobile applications used by multiple customers across the glass-processing industry.
- Developed React Native applications for Android/iOS and industrial workflows, including barcode/QR scanning, device integration, delivery operations, customer pickup, and digital signatures.
- Worked with Zebra/DataWedge and other industrial scanning-device ecosystems, solving hard-scan integration challenges across mobile hardware.
- Delivered data-rich production interfaces and dashboards using React, MUI, Material UI Data Grid, TanStack, Vite, FusionCharts, and REST APIs.

Software Engineer | Nov 2017 - Feb 2022

- Developed and integrated web and mobile solutions that reduced offline/manual processes and enabled live visibility into glass-production and logistics operations.
- Partnered with product owners and cross-functional teams to translate operational requirements into maintainable software and customer-focused interfaces.
- Applied clean-code practices, unit testing, peer reviews, and Agile/Scrum ways of working to improve maintainability and delivery quality.

SELECTED PROJECTS

LiSEC.prdCtrl

Tech: React Native, Android, Redux, DataWedge

- Production mobile application for glass-production workflows on mobile phones and industrial Zebra/Symbol devices.
- Scanner/camera workflows for ready/remake messaging of glass and racks; creation and printing of delivery notes.
- Modernization work: migration from legacy React Native application toward a PWA-based architecture with TDD-oriented practices.

LiSEC.dispatch

Tech: React Native, Android, iOS, DataWedge, Here/Google Maps APIs

- Mobile logistics application supporting loading/unloading of glass racks, customer pickup, location workflows, and signature capture.
- Integrated barcode scanning and mapping capabilities across mobile platforms and industrial-device usage.

LiSEC.Shopfloor

Tech: React, SPA architecture, FusionCharts

- Single-page application focused on advanced data handling and live visual representation of shop-floor production information.

Adaptive Production Planning

Tech: React, Vite, TanStack, MUI Data Grid, FusionCharts, GitHub Actions

- Web application for factory production planners to optimize machine job scheduling.
- Implemented data-driven multi-level tree interactions with drag-and-drop and analytics dashboards.

AI / AGENTIC ENGINEERING EXPERIENCE

- Platform-level Agentic SDLC: contributed to multi-model code review, engineering quality gates, orchestration, task delegation, and guardrails used within daily software-development workflows.
- Agent workflow engineering: designed a custom Stryker-based mutation-testing agent to measure unit-test effectiveness, generate reports, strengthen tests, and iterate toward a practical quality threshold.
- LLM / Agentic development: applied LLM and agentic capabilities in day-to-day engineering, improving existing in-house agents and integrating AI-assisted workflows across development, review, testing, and CI/CD.

CERTIFICATIONS

- Professional Scrum Master I (PSM I) - Scrum.org
- Professional Scrum Developer I (PSD I) - Scrum.org
- Advanced React - Meta

EDUCATION

Master of Computer Science (MCA) | SJCE (JSS University) | 2014 - 2017 | CGPA 8.1

Bachelor of Computer Science (BCA) | National Institute of Engineering | 2011 - 2014

EARLIER EXPERIENCE

Academic Intern - CityontheNet Marketplace Services Pvt. Ltd. | Feb 2017 - Aug 2017 | Mysuru

- Supported application lifecycle activities including design, development, testing, and customer-facing software solution discussions.