

Tushar Khanna

14 YEARS IN SOFTWARE

Technical lead · full-stack and applied AI

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Fourteen years building enterprise web products, the last six leading frontend and platform architecture for an HCM suite used by 200+ customers. Currently shipping AI into that product, including a tool-calling assistant with an intent orchestrator and AI-driven translation, and running an AI-assisted delivery cycle across the team. Comfortable owning a feature end to end, from data model to interface.

EXPERIENCE

Technical lead, CatalystOne Solutions

Jan 2020 – present · Mohali

- **In-product AI assistant.** Designed and shipped a conversational assistant for the HCM suite: an orchestrator that resolves user intent and routes it across tools, with tool calling into product APIs so employees can ask HR questions and complete actions without leaving the conversation.
- **AI translation.** Built an Azure OpenAI translation capability into the product, replacing a manual localisation workflow and giving enterprise customers multi-language content on demand.
- **AI in day-to-day engineering.** Work with AI across the delivery cycle, from exploring requirements to writing and reviewing code, tests, and documentation, and share what works with the team.
- **Angular to React migration.** Led the company-wide migration strategy and rebuilt the information architecture with async-loaded submenus, improving perceived load time by roughly 50%.
- **HR analytics dashboards.** Built React analytics dashboards against GraphQL APIs, working with the backend team on the data the interface needed and tuning rendering for large HR datasets.
- **Design system and microfrontends.** Scaled a shared component library to 70+ components used by four teams, and moved the app to a Single-SPA microfrontend architecture so modules such as recruiting ship independently.
- **Leadership.** Mentor senior engineers, run system design reviews, and own frontend engineering standards across the organisation.

Senior software engineer, Basware

Nov 2017 – Nov 2019 · Chandigarh

Built a configurable Angular component library and moved it from v1.x to v2+, documented in Storybook, and introduced Jest unit testing that measurably reduced production defects. Worked directly with product owners and designers to shape component behaviour.

Senior software engineer, Trantor

Sep 2016 – Nov 2017 · Chandigarh

Built the frontend for an energy platform: D3.js dashboards visualising consumption history and bill predictions from the backend engine, plus a Google Maps location listener that tracked customer incident acknowledgements as they happened.

Senior system engineer, Infosys

Jan 2012 – Sep 2016 · Chennai

Joined as an intern and promoted to senior system engineer within two years. Delivered and supported enterprise Java web applications, ran client demos and requirement gathering, and received two Star Awards.

SKILLS

AI engineering	LLM application design, agent orchestration, tool calling, prompt engineering, Azure OpenAI, AI-assisted development
Frontend	React, TypeScript, Angular 1.x–15, Zustand, microfrontends (Single-SPA), design systems, performance
Backend and data	REST and GraphQL API design and integration; working alongside event-sourced and graph-backed services
Practice	System design, technical leadership and mentoring, Jest, CI/CD, agile delivery

EDUCATION AND CERTIFICATIONS

B.Tech, information technology · Beant College of Engineering and Technology, 2012

Certification: AI Enablement (AI Adopter)