

GAGAN RANDHAWA

TEAM LEAD | FRONTEND ARCHITECT

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PROFESSIONAL SUMMARY

Team Lead and Frontend Architect with 12+ years of experience building enterprise and aerospace software. Hands-on leader specializing in React, Angular, TypeScript, design systems, micro-frontends, performance, and AI-enabled products. Led teams of up to eight engineers and delivered measurable gains in speed, quality, adoption, and developer productivity across Adda Tech, SAP Labs, and Wipro.

CORE SKILLS

Leadership & Architecture: Team leadership, technical strategy, system design, mentoring, code review, Agile/Scrum, stakeholder collaboration

Frontend: TypeScript, JavaScript, React, Angular, Redux, HTML5, CSS3/SCSS, Tailwind CSS, SAPUI5, micro-frontends, design systems, accessibility, PWAs

Backend, Cloud & Quality: Node.js, Express, C#, .NET, REST APIs, AWS, Azure, Docker, Kubernetes, Terraform, CI/CD, Jest, Cypress, Puppeteer, E2E testing

AI Engineering: LLM integration, streaming chat, retrieval-augmented generation (RAG), prompt design, evaluations, cost and abuse controls

PROFESSIONAL EXPERIENCE

Team Lead | Dec 2025–Present

Adda Tech | Laval, Québec

- Lead an aerospace software engineering team while remaining hands-on in frontend architecture, delivery planning, code reviews, mentoring, and cross-functional technical decisions.
- Set frontend standards across React, Angular, TypeScript, testing, CI/CD, and reusable platform components to improve consistency, maintainability, and release confidence.

Senior Software Engineer | May 2022–Nov 2025

Adda Tech | Laval, Québec

Employment note: Part-time from India, May–Aug 2022, concurrent with SAP; full-time in Canada from Aug 2022.

- Architected and delivered React and Angular applications for aerospace workflows, reducing load time by 40% through profiling, rendering optimization, and request orchestration.
- Built reusable TypeScript components and shared frontend patterns that accelerated development cycles by 50% and improved consistency across products.
- Implemented dynamic Progressive Web App manifests, increasing application adoption by 20%, and strengthened delivery through AWS, Docker, CI/CD, Jest, and Puppeteer.

Front-End Lead / Senior Developer (T3) | Apr 2017–Aug 2022

SAP Labs | Bengaluru, India

- Led eight frontend engineers migrating a legacy application to React, improving responsiveness by 60% and reducing long-term maintenance effort by 30%.
- Designed a supplier-discovery experience that enabled users to post and invite suppliers in three clicks; React and Redux improvements increased engagement by 25% and reduced bug reports by 30%.
- Raised unit and end-to-end test coverage to 95% with Jest and Cypress, contributing to a 20% reduction in customer incidents.
- Decomposed a monolith into shared micro-frontends, created the internal seller-commons library, and integrated Emarsys into SAP Marketing over SSO.
- Parallelized independent API calls to cut initial load time from approximately 6 seconds to 2 seconds; delivered a five-cloud field-extension app that contributed to a 10% upsell.

Associate Programming Analyst | Dec 2014–Mar 2017

Wipro Technologies | Bengaluru, India

- Developed and supported enterprise interfaces and ABAP reports for Xoserve, the United Kingdom gas-market data services provider, collaborating across distributed delivery teams.

SELECTED AI PROJECTS

Portfolio AI — Personal Portfolio Assistant | 2026

- Built a bilingual English/French AI assistant that answers questions about this portfolio using streamed responses, curated grounding, and a Cloudflare Worker proxy.
- Added prompt safeguards, request limits, cost controls, deterministic fallbacks, and privacy-conscious error handling; integrated the experience into a Three.js-enhanced static portfolio.

AI Workflow Product — In Development | 2026

- Developing an AI-powered workflow product with Next.js, TypeScript, Node.js, streaming LLM responses, retrieval-augmented generation, evaluations, and PostgreSQL.
- Designing the system around observable quality, reliable fallbacks, secure server-side model access, and controlled operating costs.

LEADERSHIP & RECOGNITION

- SAP MVP / Catalyst recognition in 2018, 2019, and 2021 for technical impact and engineering contribution.
- Organized a UI architecture forum connecting engineering communities across India, Germany, and Canada.
- Authored two internal technical papers on micro-frontend architecture and frontend state management.

EDUCATION

Bachelor of Engineering, Computer Science | 2014

Chitkara University | India