Chandan Singh Aswal

Frontend Architect | Lead Full-Stack Engineer

React & JavaScript · TypeScript · Python/Django · AI & Agentic Workflows

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PROFESSIONAL SUMMARY

Frontend Architect and Lead Full-Stack Engineer with 11 years of experience building scalable enterprise applications, with deep expertise in React, JavaScript, frontend architecture, and performance optimization. Hands-on experience with TypeScript and Python/Django, along with building AI-enabled product experiences and agentic workflows. Combines architectural leadership with hands-on individual contribution across frontend development, backend integration, system design, and end-to-end delivery.

CORE COMPETENCIES & TECHNICAL SKILLS

Frontend & Architecture	React, JavaScript, TypeScript, Redux Toolkit, RTK Query, Monorepo Architecture, Micro-Frontends, Component Architecture, Design Systems, Responsive UI, Web Vitals
Backend & APIs	Python, Django, REST APIs, Frontend–Backend Integration, Database Integration, Node.js
AI & Agentic Applications	Agentic AI Workflows, Enterprise Copilots, SKILL.md Definitions, Prompt & Instruction Design, LLM-Guided Query Generation, Database-Backed Retrieval, AI Workflow Engineering
Engineering	System design, performance optimization, Webpack, Vite, code splitting, lazy loading, caching, Jest, React Testing Library, application deployment, code reviews, mentoring, Agile delivery
Tools, UI & Deployment	Git, Docker, Nginx, NPM, Babel, Storybook, Material UI, Highcharts, Apache ECharts, SCSS, HTML5, CSS3
AI & Development Tools	ChatGPT, Claude Code, Codex, Figma Make, Figma Code Connect, Lovable

PROFESSIONAL EXPERIENCE

ConcertAI — Bengaluru, India Apr 2020 – Present

Engineering Architect – UI

Healthcare analytics and AI-enabled enterprise platform

- Lead frontend architecture while remaining a hands-on individual contributor, independently owning end-to-end frontend delivery for two enterprise applications within a shared multi-application codebase.
- Establish frontend architecture standards, guide technical decisions, conduct design and code reviews, and mentor engineers across delivery.
- Design and maintain reusable UI components and shared libraries within a monorepo architecture, including micro-frontend modules that support scalable development across applications.
- Develop and maintain Python/Django backend services and REST APIs supporting frontend application workflows and backend integration needs.
- Architect and develop the central administration panel that serves as the control layer for the product ecosystem, managing application registration, user access, roles, and permissions across applications.
- Create and maintain SKILL.md and database-specific Markdown definitions that provide instructions and schema context for AI workflows, including LLM-guided query generation and database-backed retrieval.
- Design and develop the UI for an Agentic AI Workflow Builder, enabling configuration of multi-step workflows involving agents, tools, and custom logic for chat-based applications.
- Architect and develop the frontend for an enterprise Healthcare Copilot, including step-based API execution, response inspection, and pinning of AI-generated analytical visualizations.
- Use AI-assisted UX prototyping to rapidly transform product concepts into interactive HTML/CSS prototypes, enabling early stakeholder validation and requirement refinement before development begins.
- Optimize production performance through Webpack bundle optimization, code splitting, lazy loading, caching, and reduction of unnecessary client-side work.

- Contribute to application deployment and runtime configuration, including Docker-based environments and Nginx configuration for serving and routing web applications.
- Drive frontend quality practices through testing, reusable architecture, maintainable engineering standards, and AI-assisted development workflows.

Harman Connected Services — Bengaluru, India May 2018 – Apr 2020

Software Developer | Client: ConcertAI

- Developed responsive healthcare analytics interfaces using React, Redux, and modern JavaScript.
- Built modular UI components and used Storybook to improve consistency, reuse, and cross-browser compatibility.
- Partnered with client engineering and product teams to translate healthcare workflows into interactive dashboards and data-driven interfaces.
- Investigated production defects, supported releases, provided effort estimates, and participated in Agile delivery.

Infosys Ltd. — Bengaluru, India Oct 2015 – May 2018

Senior Systems Engineer

- Developed enterprise web applications for clients across utilities, payments, and telecommunications.
- Built customer registration and self-service modules using React, JavaScript, and SCSS, with a focus on responsive design and WCAG accessibility.
- Developed administration dashboards using Backbone.js, jQuery, and Node.js, and prepared technical design and process-flow documentation.
- Implemented customer account-management modules using AngularJS and Java services.
- Supported onboarding and mentoring of engineers on frontend fundamentals, code flow, Git practices, and testing.

SELECTED PROJECT

Dental Care Platform

Architected and deployed a React-based clinic platform with online appointment booking, administrative patient management, and payment-related workflows. saveteethdentalcare.com

EDUCATION & RECOGNITION

B.Tech, Guru Gobind Singh Indraprastha University, Delhi
2015

ConcertAI — Bravo Award (individual recognition) and Cheers Team Award (team recognition)
Infosys — Insta Award, Certificate of Appreciation