

ChandrasekharReddy Tavva

Strategic Technical Architect · Angular 20 · Micro Frontend (MFE) · Next.js · React · Node.js/Python (FastAPI) · Keycloak · 16 Years

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16 Years of Experience | 10 Engineers Led | 5+ MFE Modules Delivered | 5 Industry Domains | Multiple Countries

PROFESSIONAL SUMMARY

Strategic Technical Architect with 16 years of experience engineering scalable, high-performance enterprise web applications. Expert in designing complex Frontend architectures, implementing Micro-Frontend (MFE) ecosystems, and building robust Design Systems that accelerate developer velocity. Proven track record of optimizing critical-path performance and securing enterprise-level authentication systems. Currently evolving deep expertise in the React/Angular/Next.js ecosystem into high-performance Full Stack systems using Node.js, Python (FastAPI), and SQL. Active AI-augmented engineering practitioner — Vibe Coding, Prompt Engineering, LLM Integration, RAG, and MCP (Model Context Protocol) integrated into daily workflows using Claude, Claude Code, GitHub Copilot, and ChatGPT. Global exposure: India, New Zealand, Brazil, US.

CORE COMPETENCIES

Architectural Leadership: System Design: MFE (Module Federation), Scalable Component Architecture, Design Tokens · Performance Engineering: Core Web Vitals, Bundle Reduction, Lazy Loading, Caching · Security & Identity: IAM, Keycloak, OAuth2, JWT · State Management: NgRx Signals, Redux Toolkit, Zustand, Context API

Frontend Expertise: Frameworks: React, Next.js, Angular, TypeScript (Expert), JavaScript (ES6+) · Styling & UI: Tailwind CSS, Material UI, Headless UI, Responsive Design, Figma-to-Code · Build Tools: Vite, Webpack, Module Federation, Turborepo, Nx Monorepos

Full Stack & Backend: Language & API: Python, FastAPI, RESTful API Design, Pydantic, Asyncio · Database & Cloud: PostgreSQL, Supabase, Redis, Data Modeling · DevOps & QA: Docker, CI/CD (GitHub Actions), Jest, Playwright, Cypress, Git

Backend / API: Node.js, ExpressJS, FastAPI, GraphQL, RESTful APIs, PostgreSQL, SQL Server

Auth & Security: Keycloak, OIDC, OAuth 2.0, JWT, SSO, OTP Flows, RBAC

Cloud & DevOps: Microsoft Azure, Jenkins, Git, GitHub, JIRA, CI/CD Pipelines

AI-Augmented Engineering: Vibe Coding, Prompt Engineering, LLM Integration, RAG (Retrieval-Augmented Generation), MCP (Model Context Protocol), Agentic AI, Claude (Claude Code, Claude AI), GitHub Copilot, ChatGPT, Cursor

Leadership: Team Lead (10 engineers), Sprint Planning, Architecture Reviews, Delivery Governance

Key Skills: Angular, React, Next.js, TypeScript, Node.js, Python, FastAPI, Micro Frontend (MFE), Module Federation, Keycloak, OIDC, OAuth2, JWT, SSO, RBAC, PostgreSQL, Redis, Docker, CI/CD, System Design, Vibe Coding, Prompt Engineering, LLM Integration, RAG, MCP, Agentic AI, Claude, GitHub Copilot, Team Leadership

PROFESSIONAL EXPERIENCE

Mindsprint Digital India Pvt. Ltd. (A Wipro Company)

Dec 2019 – Present

Technical Lead & Architect – Frontend

Nov 2024 – Present

MedAdvisor Solutions (MAS) – USPT | Healthcare / Patient Engagement | Multi-channel: SMS · Print · Letter

- Architected end-to-end MFE platform using Angular 20 and Native Federation — 5+ independently deployable modules, zero cross-team deployment conflicts.
- Implemented Keycloak SSO, OIDC and RBAC across all USPT modules: Estimation, Programs, Discovery, Monitoring and Configuration.
- Leading frontend team of 10 engineers within 30-member cross-functional delivery org — sprint planning, arch governance, technical decisions.
- Designed multi-channel patient outreach architecture: SMS, Print and Letter delivery pipelines at enterprise scale.
- Established component library, standards and review process — reduced sprint defect rate by 40%.

Stack: Angular 20, Native Federation, Keycloak, TypeScript, HTML5, Git, JIRA, Azure

Concurrent approved engagement — ofi Analytics | Agri-tech / Data Analytics | React · FastAPI | Apr 2026 – Present (6 months)

- Building React-based analytics dashboard for ofi supply chain insights — integrating with FastAPI backend services for data aggregation and reporting.
- Developing RESTful APIs using Python FastAPI; designing data models and endpoints consumed by the React frontend.
- Applying Vibe Coding practices with Claude Code and GitHub Copilot — AI-assisted development and LLM-integrated workflows to accelerate feature delivery.

Stack: React, FastAPI, Python, TypeScript, REST APIs, Git

Sr. Lead Engineer

Dec 2019 – Oct 2024

ofi Direct (OD) | Agri-tech / Supply Chain | olam food ingredients | India · New Zealand · Brazil

- Orchestrated merger of DSE and OD portals into unified ofi Direct platform — 2 codebases → 1 scalable Angular app serving 3 countries.
- Implemented custom Keycloak OTP auth for 1,200+ NZ Dairy Farmers — zero critical security incidents post-launch.
- Led Angular v6 → v14 migration; resolved 20+ critical dependency vulnerabilities — eliminated all security exposure.
- Transformed portal to fully responsive modern UI/UX — reduced mobile-related support tickets by ~35%.
- Integrated React micro-components into Angular shell during phased migration — 5 major releases on schedule.
- Managed 18+ sprint cycles across stakeholders in India, New Zealand and Brazil.

Stack: Angular 14, Bootstrap 5, Keycloak, Node.js, React, Jenkins, Git, JIRA

HTC Global Services

Aug 2016 – Nov 2019

Project Lead / Lead Developer

Data Assets & Strategy (DAS) — Insurance Analytics | The General — Auto Insurance

- Built Admin UI, Claims Online Metrics and Agency dashboards with D3.js — serving 200+ insurance agents with real-time analytics.
- Developed GraphQL + PostgreSQL REST APIs; introduced lazy-loading and reusable components — ~45% reduction in initial load time.
- Built unified application for The General integrating quoting, policy, billing and claims for 50,000+ users.

Stack: Angular 9/6, Bootstrap 3/4, PostgreSQL, Node.js, GraphQL, D3.js, Git

Tespa Infotech Pvt. Ltd.

Aug 2014 – Jun 2016

Senior Developer

HLL Biotech Ltd (HBL) — Self-Service e-Portal & Mobile App | Govt. of India / Healthcare

- Delivered full-stack employee self-service portal and Ionic/Cordova hybrid mobile app for GoI enterprise — 3,000+ employees.
- Built REST APIs in C# / ASP.NET MVC with SAP B1 integration; responsive UI using AngularJS and Bootstrap.

Stack: AngularJS, Bootstrap, C#.NET, ASP.NET MVC, Web API, SQL Server, Ionic, Cordova

Quadrant4 Software Solutions / Mascon Global Ltd.

Aug 2010 – Jun 2014

.NET Developer / Application Developer

AMIC (Auto Insurance) · EIG (Energy Data Warehousing) · Digital Link (DAM — Universal Studios)

- Built N-tier ASP.NET applications for insurance, energy data warehousing and digital asset management.
- Developed Crystal Reports, Stored Procedures, REST APIs; handled deployment to test and production environments.

Stack: C#, ASP.NET MVC, Ajax, ADO.NET, SQL Server 2008

FEATURED PROJECTS

HealthGuard — Dental Care Management Platform

React · Vite · Supabase · Tailwind CSS

- Full-stack dental care management platform with appointment scheduling, patient health records, and Razorpay payment integration — piloted with 3 dental clinics.
- Implemented Supabase backend with row-level security, real-time subscriptions, and Supabase Auth.
- Responsive UI with Tailwind CSS; optimized bundle with Vite achieving sub-2s initial load.

CERTIFICATIONS

- Microsoft Certified Professional (MCP) — Developing Microsoft Azure Solutions (2017).
- Microsoft Certified Professional (MCP) — Implementing Microsoft Azure Infrastructure Solutions (2017).
- Prompt Engineering — Professional Development Course.
- AI Skills for Developers.

EDUCATION

Master of Computer Applications (MCA)

2006 – 2009

Thanthai Hans Roever College, Bharathidasan University