

Mahesh Cheemalapati

SUMMARY

Senior Platform Engineer and Technical Lead with 10+ years of experience designing and scaling cloud-native web platforms. Leads cross-team architectural initiatives across 15+ engineering squads, aligning API governance, performance optimization, and platform standards. Experienced in building frontend and backend systems using modern frameworks and cloud-native microservices in Azure and GCP environments. Regularly serves as technical escalation point for complex production issues and domain-level modernization efforts, including AI-enabled capability rollouts serving millions of users.

TECHNICAL PROFICIENCIES

Frontend & UI Engineering: Angular, TypeScript, RxJS, NgRx, Vue.js, React.js, Webpack, Storybook, WCAG Accessibility

Backend & APIs: ASP.NET Core (.NET 8+), Node.js, Python, GraphQL, Microservices Architecture

Cloud, Containers & DevOps: Microsoft Azure, Azure DevOps, GCP, Docker, Kubernetes, Blue-Green Deployments, CI/CD Automation

Data & Storage: SQL, MySQL, GoogleSQL, PostgreSQL

Testing & Observability: Jest, Vitest, JUnit, TDD, Dynatrace, Splunk

EXPERIENCE

Humana – Senior Full Stack Engineer | May 2023 – Present

- Established and led platform-wide architectural standards for the myHumana domain, aligning 15+ engineering teams around API governance, performance baselines, and deployment strategy.
- Architected a cloud-native micro-frontend platform supporting customer-facing healthcare portals across Medicare, Medicaid, wellness, and billing systems.
- Built and optimized ASP.NET Core microservices powering high-volume GraphQL APIs deployed in containerized Azure environments (Docker + Kubernetes).
- Reduced API traffic from 1M to 500K daily requests through improved state management, caching strategies, and GraphQL query optimization—lowering infrastructure costs and improving latency.
- Achieved 50% reduction in initial page load time via backend data-flow optimization and frontend performance tuning.
- Led development of AI-driven member search capability from proof-of-concept to production deployment, leveraging feature flags and phased rollouts to ensure safe adoption and measurable performance improvements.
- Implemented Azure DevOps CI/CD pipelines with Blue-Green deployment strategy to ensure zero-downtime production releases.
- Partnered with product, SRE, and business stakeholders to align platform architecture with performance, security, and scalability requirements.
- Led cross-team technical design reviews and mentored engineers through architectural guidance, ensuring scalability, reliability, and consistent engineering standards across squads.

EPAM Systems (Client: Google) – Senior Software Engineer | July 2021 – March 2023

- Designed and delivered a scalable Angular and Python application deployed on GCP, owning architectural decisions, performance strategy, and compliance upgrades.
- Developed high-performance dashboards visualizing large datasets; optimized GoogleSQL queries to significantly reduce load times for internal stakeholders.
- Led security hardening initiative upgrading application from L3 to L4 compliance standards.
- Automated operational workflows using AppsScript, reducing manual effort by 40%.
- Served as sole engineer owning end-to-end architecture, development, deployment, and cross-functional stakeholder collaboration.

Full-Stack Engineer – Past Experience | Aug 2016 – July 2021

- Designed and developed Angular, React, and TypeScript-based enterprise web applications.
- Built reusable UI components, dashboards, and state-managed workflows using RxJS and NgRx.
- Developed ASP.NET Core services and integrated APIs supporting customer-facing platforms.
- Implemented CI/CD automation using Azure DevOps, increasing test coverage to 90% and reducing deployment errors.
- Led and mentored a team of 10 developers, conducting code reviews and driving engineering standards.
- Ensured accessibility compliance (WCAG), cross-browser compatibility, and performance optimization across applications.

EDUCATION

Master of Science – Management Information Systems

Bowie State University | Bowie, MD

Bachelor of Technology – Computer Science

Gayatri Vidya Parishad College of Engineering | India

CERTIFICATIONS

Artificial Intelligence: Implications of Business Strategy - MIT Professional

Education Elements of AI - Minna Learn - University of Helsinki

Create Personalized Customer Journeys Using Adobe Journey

Optimizer Configure Adobe Journey Optimizer