

PROFILE SUMMARY

Staff Software Engineer with 8+ years of experience building scalable enterprise solutions across Healthcare, Sustainability, and SaaS domains. Skilled in .NET, Azure, Angular, distributed systems, and cloud-native architectures. Proven track record of leading high-impact initiatives, driving system design decisions, and delivering measurable business outcomes.

At IBM, led the integration of IBM Envizi with IBM Planning Analytics, contributing to product growth and earning the IBM Entrepreneur Award. Passionate about AI-powered solutions, technical leadership, and building resilient systems at scale.

TECHNICAL SKILLS

- **Programming:** C#, SQL, TypeScript, Python (Basic)
- **Architecture & Design:** System Design, Microservices, Distributed Systems, Design Patterns
- **Databases & Data Engineering:** SQL Server, SSIS, SSAS, MySQL, Cosmos DB, Redis, Elasticsearch
- **Cloud & DevOps:** Azure App Services, Azure SQL, CI/CD, Application Insights
- **AI & Generative AI:** LLMs, Amazon Bedrock, MCP (Model Context Protocol), Prompt Engineering, AI Agents
- **Frameworks:** ASP.NET Core, .NET, Web API, Entity Framework, Angular, React (Basic)
- **Messaging & Integration:** gRPC, NetMQ, REST APIs
- **Data Visualization:** Power BI
- **Tools & Utilities:** Git, Visual Studio, VS Code, SSMS, Postman, SQL Profiler
- **Regulatory & Compliance:** HIPAA, FDA, GRESB

PROFESSIONAL EXPERIENCE

IBM | Staff Software Engineer

Bangalore, Karnataka, India

Nov 2023 – Present

- Lead the design and delivery of backend services, platform enhancements, and architectural initiatives for the IBM Envizi Reporting Module.
- Architected and delivered the IBM Envizi–Planning Analytics integration using a scalable pipeline-based data flow architecture, contributing to a 25% increase in product sales; recognized with the IBM Entrepreneur Award for this high-impact initiative.
- Designed and developed an MCP server integrating AI workflows with Elasticsearch-based log data, enabling AI-assisted log analysis and reducing troubleshooting time by ~60%
- Led the migration of IBM Supply Chain Intelligence (SCI) reporting capabilities onto IBM Envizi, enabling reuse of Envizi platform resources through data model extensions and reporting module migration while collaborating with cross-functional engineering teams.
- Owned and continuously optimized enterprise data pipelines, including SSIS-based ETL processing, SSAS analytical cube modeling, and scheduled database workflows supporting scalable ESG reporting systems.
- Implemented a secure cloud-based attachment storage solution, reducing database footprint, improving scalability, and strengthening security controls.
- Drove engineering excellence through architecture discussions, performance optimization, code reviews, and technical mentorship.

Philips | Senior Software Engineer

Bangalore, Karnataka, India

Dec 2021 – Nov 2023

- Contributed to the design and development of high-performance distributed medical software for Philips CT Modality R&D.
- Developed a knowledge-based tool that automated analysis of over 1 billion log lines across 15K+ files, reducing manual investigation time by 95%.

- Built a modular communication framework supporting gRPC, NetMQ, and WCF, with API caching, exception handling, and service proxy control.
- Created custom dashboards using the ELK Stack for visualizing and analysing large-scale hospital-reported bug data.
- Actively participated in code reviews, ensured adherence to quality standards, and collaborated in an Agile development setup.

Good Methods Global Inc- CareStack | Software Engineer 2

📍 Trivandrum, Kerala, India

May 2018 – Dec 2021

- Led end-to-end full-stack development for the Clinical module of CareStack™, a cloud-based dental practice management system.
- Migrated critical components from AngularJS to Angular 6, improving performance, maintainability, and UI consistency
- Optimized SQL queries and schema design, contributing to a ~40% improvement in database performance.
- Integrated DoseSpot (prescription management) into the platform, significantly enhancing product value and supporting client acquisition efforts.
- Received Best Performer Award for the quarter in recognition of consistent, high-impact contributions to product stability and performance.

EDUCATION

Bachelor of Technology - Mahatma Gandhi University, Kerala, India
Computer Science Engineering | CGPA: 8.3/10

2014–2018

ACHIEVEMENTS & CERTIFICATIONS

- IBM Entrepreneur Award – Recognized for leading the Envizi–Planning Analytics integration initiative contributing to product growth
- AI Certifications
 - Generative AI on AWS — Amazon Bedrock, RAG & LangChain
- IBM Certifications
 - MS SQL Server Development Essentials
 - Developer Profession - Level 2 Experienced
 - IBM Agile Explorer
 - Data Science Foundations Level 1
 - Enterprise Design Thinking Practitioner, Co-Creator, Team Essentials for AI, and for Sustainability
- Scrum Master– Facilitated agile processes for a 7-member development team (2020–2021)
- Chairperson - Innovation & Entrepreneurship Development Centre – College-level leadership role (2017–2018)

INNOVATION & PERSONAL PROJECTS

- **Chef In Tech** **2024– 2025**
 - Developed an AI-powered web application using OpenAI LLM APIs to generate personalized recipes based on cooking constraints such as time, appliances, and servings, exploring prompt engineering and RAG-based enhancement concepts
- **Steganography** **2018–2019**
 - Built a Java based tool to securely embed and extract encrypted messages within image files using steganography techniques.
- **Static websites (Lavender Solutions Pvt Ltd.)** **2017–2018**
 - Designed and deployed static websites for boutique and spa businesses in Cochin using HTML, CSS, and JavaScript, as part of a freelance initiative during college.