

CHANDAN BILVARAJ

SOLUTION ARCHITECT



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PROFESSIONAL SUMMARY

Experienced Software Architect with 12+ years leading the design and development of scalable, secure, and interoperable enterprise platforms. Expertise in cloud-native solutions (**Azure, AWS**), **AI** integrations, knowledge graphs, and GraphRAG. Skilled in **full-stack development python, React.js, microservices, Agentic AI** and **DevOps/DevSecOps**. Proven leader driving cross-functional teams, championing best practices, and aligning technology with business goals to deliver innovative, future-ready solutions. Adept at fostering a culture of collaboration, leading modernization efforts.

EDUCATION

2009 - 2013

Visveswaraya
Technological University

Bachelor of Technology (B.Tech)

Graduated with a strong foundation in software engineering and systems design, actively participating in technical clubs and hands-on projects to develop practical development and problem-solving skills.

EXPERIENCE

Jul'24 - NOW

MathCo Pvt. Ltd.

Platform Architect

Platform & AI Architecture

Architected NucliOS, a low-code data science platform, defining its end-to-end platform and AI architecture. Designed AI Mesh and a unified AI Gateway for secure, governed access to hosted LLMs. Built GraphRAG pipelines with knowledge graphs for context-aware analytics. Developed multi-agent and orchestrator agents using MCP and LangChain, and established ContextOps / context engineering practices to manage prompt, memory, tools, and knowledge context at scale. Integrated secure, agentic AI capabilities into enterprise applications.

Cloud, DevSecOps & Platform SRE

Developed scalable multi-cloud infrastructures (Azure/AWS) using Terraform, AKS, and ECS. Established robust DevSecOps pipelines with automated CI/CD and IaC, ensuring compliance and operational excellence. Defined & designed platform reliability and enterprise-readiness standards. Drove production readiness, operational excellence, and compliance-by-design

API Strategy & Interoperability

Architected & Implemented an API-first architecture with canonical data models to drive seamless integration and interoperability across distributed systems.

Technical Leadership:

Mentored engineering teams on architectural best practices and led client-facing architecture reviews, ensuring security, governance, and regulatory compliance across all platform initiatives.

Jan'23 - Jul'24

MathCo Pvt. Ltd.

Engineering Manager

Team Leadership & Delivery:

Led cross-functional engineering team delivering a cloud-native, microservices-based analytics studio from design to production.

Platform Modernization:

Drove migration of legacy systems to containerized Azure Kubernetes Service (AKS) with Helm, centralized logging, and distributed tracing.

DevOps Transformation:

Established CI/CD pipelines and Infrastructure as Code (IaC) with Terraform and ARM templates, reducing release lead time by 40%.

Hands-On Technical Excellence:

Mentored senior engineers on DDD and performance benchmarking, performed code reviews, and contributed to core full-stack and backend development.

Dec 2017 – Dec 2023
Carbynetech Pvt. Ltd.

Technical Lead

Enterprise SaaS & Cloud Architecture:

Designed and architected enterprise SaaS, GIS, and multi-tenant platforms on Azure with secure, API-driven architectures.

Full-Stack & Data Platform Development:

Spearheaded flagship products (React, Node.js) and built high-availability data layers, integrating AI for incident detection.

DevSecOps & Technical Leadership

Implemented CI/CD pipelines (Docker, Kubernetes) and led team adoption of clean architecture and automated testing practices.

July 2014 – July 2017
3E Software Solutions

Software Engineer

Mobile & Web Application Development:

Developed hybrid and native mobile applications (Cordova, PouchDB/CouchDB sync) with geolocation features, alongside LMS web modules in Angular 4 (UI prototypes, instance resolvers).

API & Backend Integration:

Designed and implemented offline-first architectures, secure authentication flows, and REST API ecosystems, working closely with backend teams on API design and integration of cloud services.

DevOps & Tools:

Implemented CI processes, managed NoSQL & SQL data pipelines via Azure Data Factory, maintained Maven artifact repositories, and utilized Git/Gerrit for version control and code review.

SKILLS

Enterprise & Platform Architecture: Microservices, API-driven Design, Interoperability

Cloud: Microsoft Azure, AWS, Cloud-native Deployments, Kubernetes, Serverless

Software Development: Python, Javascript, React.js, Node.js, Typescript, Java, Mobile App Development, Swift

AI Architecture & Security: AI workload orchestration, Hosted AI Models, Agentic AI Solutions, GraphRAG, Knowledge Graphs

DevOps & DevSecOps: CI/CD Pipelines, Automated Deployment, Infrastructure-as-Code, Automated SaST, DaST & SCA

Data Modeling & Integration – Event-driven Architectures, Data Lakes, Graph Databases

Team Leadership & Technical Evangelism – Architecture Governance, Code Reviews, Best Practices

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals
- Microsoft Certified: Azure Developer Associate
- Microsoft Certified: Azure AI Engineer
- Certified Scrum Master (CSM)
- Certified Kubernetes Application Developer
- Accredited Systems Engineer – Cloud Architect

SPEAKING ENGAGEMENTS

- Embed Durable Architectures for AI Workloads (2024)
- Building Interoperable Architecture for Platforms (2025)
- API-Driven Design (2021) | Micro-frontends Practical Implementation (2021)
- Microservices & Service Mesh Practical Implementations (2020)