BHUSHAN MAHESHWARI

Information Technology Officer at The World Bank Group

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Professional Summary

Innovative Solutions Architect with 13+ years of experience in designing scalable solutions across Generative AI, Azure Cloud, and Data Engineering. Proven track record at the World Bank Group leading AI-driven automation, knowledge management, and operational efficiency initiatives. Skilled in cross-functional collaboration and delivering business transformation using Agile, SAFe, and Design Thinking.

Core Competencies

- **Product Strategy & Agile Leadership:** Expert in defining vision, roadmaps, and technical backlogs, ensuring seamless execution of business-driven solutions through Agile and SAFe® methodologies.
- **Artificial Intelligence & Machine Learning:** Specialize in Generative AI, Conversational AI, NLP, RAG pipelines, and LLMs (OpenAI, Google Gemini) to enable AI-powered automation, personalization, and business transformation.
- **Cloud & DevOps:** Strong foundation in Azure cloud platforms, Databricks, MLOps, Infrastructure as Code (IaC), and CI/CD pipelines, ensuring scalable and secure deployments.
- **Data Engineering:** Design and implement robust pipelines for structured, unstructured, and geospatial data using Azure Databricks, Data Lake, and orchestration tools.
- **Technical Leadership & Communication:** Skilled at bridging the gap between business and technology, effectively articulating strategies to executives, engineers, and product teams, and a focus on long-term value.
- **System Architecture & Emerging Tech:** Design microservices-based and event-driven systems; explore Blockchain, IoT, Spatial & Quantum Computing.
- **Prototyping & Development:** Skilled in Python (Pandas, NumPy, LangChain), Angular, React, Django, and Flask for building AI prototypes and scalable applications.

Skills & Expertise

- **Programming Languages**: Python, TypeScript, JavaScript, C#
- **Backend Development:** Microservices, Distributed Systems, REST, GraphQL
- **Frontend Development:** React, Angular, Next.js, Tailwind CSS
- **AI & ML**: Generative AI, RAG, Document Classification, NLP, LangChain, LangGraph, Agentic AI
- **Cloud Platforms:** Azure (Certified Solutions Architect), AWS, Google Cloud
- **Databases**: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch
- **DevOps & CI/CD**: Docker, Kubernetes, Terraform, Jenkins, GitHub Actions
- **Architecture & Scalability**: Event-Driven Systems, CQRS, API Gateway, Service Mesh

Education & Certifications

- Master of Business Administration (MBA) – **Western Governors University, USA | 2021**
- Bachelor of Computer Science Engineering – **Rajiv Gandhi Technical University, India | 2011**
- SAFe® Certified Agilist (Leading SAFe®)
- Microsoft Certified: Azure Solutions Architect Expert
- Microsoft Certified Solutions Associate
- Microsoft Certified Generative AI Solutions
- eCornell's Diploma on Design Thinking

Professional Experience

Lead Architect, AI/Automation, Country Engagement - The World Bank Group | Since 2023 | Washington DC, USA

- Led the design and implementation of generative AI solutions for automated content creation and document analysis, reducing review time by 40% and improving documentation efficiency.
- Architected a risk and issue management dashboard using Google Maps, Azure Data Lake, and OpenAI, enhancing data accessibility and global decision-making.
- Developed an AI-powered document comparison tool using Angular, Azure Data Bricks, and ChatGPT models to streamline review processes.
- Built a scalable data processing platform with Azure Data Bricks, Service Bus, and Python, enabling automated document generation and supporting data-driven decisions.
- Created a dynamic AI portfolio website to showcase AI products, frameworks, and resources, fostering knowledge sharing and cross-team engagement.
- Designed a collaborative workspace for Country Management Units integrating analytics, geospatial tools, and AI-driven content generation, boosting productivity by 30%.

Solutions Architect, Knowledge Solutions - The World Bank Group | 2020 – 2023 | Washington DC, USA

- Designed and implemented an intranet platform with Angular, Azure Search, and Power BI, improving transparency and reducing information retrieval time by 25%.
- Partnered with HR to build a global mobility solution using SharePoint and Azure Cloud, streamlining workflows and cutting processing time by 20%.
- Delivered an integrated project management tool with Angular and Azure, enhancing visibility and collaboration across operational teams.
- Built a photo catalog app in MS Teams using ReactJS and Azure Cognitive Services, enabling dynamic search and improving field data accessibility.

Senior Software Engineer, Data Science Digital Platforms - The World Bank Group | 2019 – 2020 | Washington DC, USA

- Architected a site builder tool using Angular and TypeScript to manage web and mobile app preferences built on the Core Framework.
- Designed a configuration-based CMS to automate org-level data entry, enabling dynamic sites, lists, and planned dashboards.

Technical Lead - Bank of America (TCS) | 2015 – 2018 | Jacksonville, Florida, USA

- Automated API and Mainframe-based data exchange with financial firms, projecting $10M+ in savings over six years.
- Developed UI and backend using Angular, C#, Web API, EF, and optimized SQL queries, enhancing performance and reliability.
- Collaborated with DTCC, BONY, and internal teams to ensure regulatory compliance & seamless integration.
- Presented progress and solutions to stakeholders, driving alignment and resolving delivery challenges.

System Engineer - Bank of America (TCS) | 2012 – 2015 | Mumbai, India

- Architected migration of a legacy Mainframe app to .NET using MVC, Web Forms, WCF, and IBM DB2.
- Led requirements gathering and standardized project documentation via SharePoint for version control.
- Built caching mechanisms & reusable services to boost performance and handle large Excel data uploads.
- Developed a generic UI component for 30+ controls, enhancing responsiveness and audit logging.
- Automated proxy update workflows, saving ~60 hours weekly and improving operational efficiency.