

Arjun Shekar Bharadwaj

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Software Development Engineer with 10+ years of experience in backend development and a strong AWS background.

Experience

- 2024–Present **Senior Software Engineer, Microsoft Azure, Mountain View**
Sr. Software engineer specializing in cloud-native compute platforms and streaming data architectures, building *scalable, fault-tolerant solutions* for batch and streaming workloads using Kubernetes, Apache Airflow, and open-source technologies within the Azure Resource Builder team.
- Azure Compute Platform for Streaming and Batch Jobs
 - Architected compute platform supporting streaming/batch processing using Kubernetes and Apache Airflow, integrating RisingWave, Spark, and Flink
 - Designed seamless interfaces with Azure Event Hubs (Kafka) and Storage Accounts for data ingestion
 - Dynamic Runtime Deployment & AI Evangelism
 - Built customized container solution for dynamic NuGet package management and *zero-downtime deployments*
 - Championed AI tools adoption: MCP servers, SWE Agents, and custom prompts for development workflows
- 2019–2024 **Software Development Engineer, Amazon Lab 126, Sunnyvale**
Experienced software engineer leveraging expertise in large-scale distributed system design and data-driven development to build *highly available, fault-tolerant, scalable microservices* and *AI-powered platforms* with AWS using Java and Python frameworks for cross-functional initiatives.
- AI-Powered Customer Engagement Platform & Action APIs
 - Architected *AI-powered platform* (MCP Server) for Alexa+ enabling optimal device targeting for customer content delivery across Music, News, Video domains globally
 - Engineered *LLM-based system* using Langchain with prompt engineering and few-shot learning, supporting millions of customer interactions daily
 - Target Recommendation Service & Scalability Engineering
 - Spearheaded re-architecture using structural and behavioral design patterns, *reduced operational costs by 50%* through query optimization and batching
 - Built *scalable, fault-tolerant rule engine* for global customer base, led Q4 readiness with load testing and capacity planning, collaborating with cross-functional teams
 - Vega OS Launch & Cross-functional Technical Leadership
 - Led *working group of 20+ stakeholders* across device, video, and middleware teams to deliver Vega OS support, ensuring system reliability at scale
 - Drove consensus through Principal Engineer collaboration and design reviews, mitigated latency issues and reduced scaling costs for global deployment
- 2015–2019 **Software Development Engineer, Amazon Development Centre India, Bengaluru**
Led development and management of Seller onboarding microservices for Amazon.in launch.
- Designed international merchant registration pipeline for India market expansion, enhanced customer touchpoints with caching
 - Built invoice generation service, integrating AWS SQS for real-time processing and automated SFTP workflows to Deutsche Bank

Education

- 2013–2015 **Master of Technology (M.Tech)**, *IIIT-B*, India, *CGPA: 3.70/4.00*
Major: Information Technology
- 2007–2011 **Bachelor of Engineering (B.E)**, *RVCE*, India, *CGPA: 9.00/10.00*
Major: Computer Science and Engineering

Skills

- Languages Java, JavaScript, Python, C#, Haskell
- Cloud Platforms AWS (SQS, SNS, Lambda, DynamoDB, Athena), Azure (Event Hubs, Storage Accounts, Container Apps)
- Container & Orchestration Kubernetes, Docker, Azure Container Registry
- Frameworks & APIs Spring, Coral, AUI, Angular, jQuery, Proto + gRPC
- Data & Messaging AWS Data pipeline, Datamart, Kafka, Apache Airflow
- AI & ML Langchain, LLM Integration, Prompt Engineering, Few-shot Learning, AI-powered Platforms, MCP Servers, MagentaSDK