

Arjun Shekar Bharadwaj

3403 Router Cmn
Fremont CA 94538
📞 +1 (650) 379 5120
✉ arjun.s.waj@gmail.com
🌐 arjunswaj

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 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 comprehensive *compute platform* supporting *streaming/batch processing* using *Kubernetes orchestration* and *Apache Airflow*
 - Integrated multiple *compute engines*: *RisingWave*, *Hosted Spark Clusters*, *Apache Flink*
 - Designed seamless interfaces with *Azure Event Hubs (Kafka)* and *Azure 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*, *cloud technologies* and *data-driven development* to build highly available, scalable *microservices* with *AWS* on *Java*, *Python* frameworks for cross-team initiatives.

- Alexa+ Action APIs & AI Integration
 - Created *Action APIs (MCP Server)* for Alexa+ to target optimal devices for content rendering across domains
 - Engineered *prompt engineering solutions* for target determination in *Music*, *News*, *Video* domains for *Playback*, *Resume*, *Transport Control*
 - Developed *LLM system* using *Langchain* with *few-shot prototypes* for enhanced context handling
- Target Recommendation Service & Smart-home Targeting
 - Spearheaded re-architecture using *structural and behavioral design patterns* for enhanced efficiency
 - Built scalable rule engine for device targeting, *reduced operational costs by 50%* through optimization and *data-driven* metrics
- Vega OS Launch
 - Collaborated across teams (device, video, middleware) to launch Vega OS, *mitigated latency* and *reduced scaling costs*

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, MagentaSDK, Prompt Engineering, LLM Integration, Few-shot Learning, MCP Servers