

Arjun Shekar Bharadwaj

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Software Development Engineer with 9+ years of experience in full-stack development and a strong AWS background.

Experience

2019–Current **Software Development Engineer, Amazon Lab 126, Sunnyvale**
Engineer highly available, scalable systems on AWS with Java, Python for cross-team initiatives.

- LLM Prompt Engineering for Alexa Endpoint Context Service
 - Demonstrated LLM action generation with Langchain, reducing fine-tuning.
 - Built few-shot prototype to address missing context, enhancing robustness.
 - Improved LLM accuracy to 80% without additional fine-tuning.
 - Integrated service with LLMs (ChatGPT, Claude 2, Alexa GM 100B).
- Space based targeting for 3P Smart-home Devices
 - Enhanced smart-home device targeting with scalable AWS rule engine.
 - Optimized service calls, reducing costs by 50%, improving scalability.
- Rearchitected the Target recommendation service
 - Rearchitected service using structural and behavioral design patterns.
 - Implemented product components, including business metrics for data-driven decisions.

2015–2019 **Software Development Engineer, Amazon Development Centre India, Bengaluru**
Led development and management of Seller onboarding microservices for Amazon.in launch.

- Launch of Out of Country Merchants in India
 - Designed international merchant registration pipeline, accelerating India market expansion.
 - Enhanced multiple customer touchpoints with precomputation and caching, reducing latency.
- AWB and Commercial Invoice Generation
 - Built invoice generation service, integrating AWS SQS for real-time order processing.
 - Streamlined audit workflows with automated SFTP invoice transfer to Deutsche Bank.
 - Ensured compliance and streamlined financial processes with secure invoice generation.

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
LLMs/GenAI	Langchain, MagentaSDK, HuggingFace APIs
Cloud	AWS (SQS, SNS, Lambda, DynamoDB, Athena)
Frameworks	Spring, Coral, AUI, jQuery
Data Integration	AWS Data pipeline, Datamart