

MOHAMMAD ASHIF

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EDUCATION

Master of Science in Computer Science | Florida State University | Tallahassee, FL Aug 2023 – May 2025
- 3.44 GPA | Coursework: Artificial Intelligence, Database Systems, Advanced Operating Systems, Algorithms

Bachelor of Science in Computer Science | University of Delhi | New Delhi, India Jun 2018 – May 2021
- 8.35/10 CGPA

PROFESSIONAL EXPERIENCE

Software Engineer | Liberate Innovation | Remote, USA Oct 2025 – Present

- Architected and deployed production voice AI agents using multi-agent orchestration and NLP-driven conversation flows, handling real-time caller interactions for insurance First Notice of Loss across multiple clients.
- Designed an AI agent architecture workflow that reduced voice agent build time from 8–10 days to under 1 day, a 10x acceleration adopted across the engineering team.
- Built reusable AI agent skills, prompt templates, and diagnostic tooling that enabled the broader team to ship agents faster, establishing standardized patterns for multi-agent handoffs and data consistency.
- Delivered end-to-end voice FNOL flows for 5+ insurance clients, integrating with policy management systems (Guidewire Policy Center, Claim Center) and coordinating cross-team bug triage and sprint planning.

AWS Integration Engineer (Internship) | BigCommerce | Austin, TX May 2024 – Dec 2024

- Built a distributed ETL pipeline in Python that syncs 150,000 Salesforce records to AWS daily using Lambda, Step Functions, and S3, cutting data refresh time by 70% and eliminating all manual steps.
- Implemented bidirectional data sync between Salesforce instances using EventBridge and AppFlow, integrated with Apex Triggers and Salesforce Flows, improving data consistency and operational reliability by 50%.

Software Engineer | Dell Technologies | New Delhi, India | Jan 2023 – Jul 2023

- Designed and shipped microfrontend components for Lightning, a large-scale customer-facing product, increasing user engagement by 40% using React, TypeScript, and Web Components.
- Led testing efforts across unit (Jest) and E2E (Chrome DevTools) layers, improving software reliability in production by 35%.

Full-Stack Software Engineer | Amantya Technologies | Gurugram, India Jan 2021 – Dec 2022

- Built microservices and REST APIs to process communication tower data at scale using Python, Django, PostgreSQL, and MongoDB, reducing API response time by 60%.
- Designed and deployed event-driven workflows with AWS API Gateway, Step Functions, and Lambda, cutting integration latency by 40%.
- Led integration of OAuth 2.0 across the platform, improving system security and authentication efficiency by 25%.

Back-End Developer | GITS | Bengaluru, India May 2018 – Apr 2020

- Designed and deployed high-performance REST APIs using Node.js, Express.js, and Fastify; led testing with Jest and Mocha, achieving 95% code coverage.

PROJECTS

SynMob SmartCities | Python, TensorFlow LSTM, NumPy/Pandas, GeoPandas Aug 2024 – Dec 2024

- Developed a diffusion-model pipeline that synthesizes 1.5M Los Angeles vehicle trajectories with 95% statistical fidelity to real GPS data, delivering a privacy-safe dataset for mobility research.

TECHNICAL SKILLS

Languages: Python, JavaScript (Node.js), TypeScript, C, C++, Java, SQL, HTML/CSS

Cloud & Infrastructure: AWS (Lambda, EC2, S3, API Gateway, Step Functions, EventBridge, DynamoDB, CloudWatch, CDK, IAM), Docker, Kubernetes, GitHub Actions, CI/CD, Linux

AI & ML: NLP, Multi-Agent Orchestration, Voice AI, LLM Prompt Engineering, TensorFlow, Generative AI

Frameworks & Databases: React, Express.js, Django, Redux, GraphQL, PostgreSQL, MongoDB, Redis, Firebase, Jest, Microservices, WebSockets