

MOHAMMAD ASHIF

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Professional Experience

AWS Integration Engineer

BigCommerce

Austin, TX

May 2024 - Dec 2024

- Developed and managed APIs using API Gateway, Step Function, Lambda, and S3, enhanced by Route53 for efficient DNS management, and monitored using CloudWatch, Python, and AWS CDK. This infrastructure effectively supported object creation in Salesforce.
- Built a Python ETL tool that syncs 150,000 Salesforce records to **AWS** every day, cutting data refresh time by 70% and removing all manual steps.
- Implemented a bidirectional data sync between Salesforce instances using **AWS EventBridge and AppFlow**, integrated with Salesforce Flows & Apex Trigger, which increased data consistency, enhancing operational reliability by 50%.

Software Engineer

Dell Technologies

New Delhi, India

Jan 2023 - Jul 2023

- Designed multiple components for all Microfrontend applications of a customer-facing product, Lightning, increasing user engagement metrics by 40% using **React, JavaScript, Redux**, Web components, Webpack, and jQuery.
- Performed root cause analysis for more than 10 issues to identify bugs and rolled out fixes to production within the sprint.
- Spearheaded comprehensive testing efforts using Jest for unit testing and Chrome DevTools for end-to-end (E2E) and integration testing, enhancing software reliability and performance in production environments by 35%.

Full-stack Software Engineer

Amantya Technologies

Gurugram, India

Jan 2021 - Dec 2022

- Engineered **frontend and backend applications** for our clients that can help consume the communication towers' data to analyze and build a stable network for their customers using **React, TypeScript, Python**, Django, **MongoDB**, and **SQL**.
- Demonstrated expertise in SQL query optimization within PostgreSQL, resulting in a 30% improvement in database performance.
- Built innovative **microservices** and Web Services (incl. **SOA/SOAP/REST**) to help monitor tower data, reducing the response time of APIs by 60% as compared to previous services by using the latest methods and query improvements in the backend services.
- Led the seamless incorporation of **OAuth**, fortifying system security and enhancing **user authentication** efficiency by an impressive 25%, culminating in a robust and user-friendly authentication ecosystem.
- Designed and deployed scalable APIs with **AWS API Gateway**, Step Functions, and Lambda, streamlining event-driven workflows and reducing integration latency by 40%.

Front-End Software Engineer

Bosler

Colomiers, France

May 2020 - Dec 2020

- Worked in cross-functional teams with designers, product managers, and developers to improve user accessibility by 15% by integrating user feedback into the product design and development process, which was highly appreciated by our clients.
- Engineered new components for a **big data** platform with the goal of managing and visualizing millions of data points on the platform itself and using that data to help multiple partners drive their business successfully and get more customers using **React, Redux, JavaScript, Three.js**, and **D3**.

Node.js Back-End Developer

GITS

Bengaluru, India

May 2018 - Apr 2020

- Designed, developed, and deployed secure, high-performance **REST APIs** using **Node.js, Express.js**, and Fastify, facilitating smooth API integrations.
- Constructed a robust authentication and authorization system using **Passport.js and JWT**, ensuring secure user access and data protection of the APIs
- Led comprehensive testing efforts with **Jest and Mocha**, achieving a 95% code coverage for backend services. This rigorous testing framework ensured the reliability and stability of APIs, contributing to reduced bug reports and delivering high-quality, production-ready code with minimal downtime

Education

Master of Science in Computer Science

Florida State University

Tallahassee, FL, USA

Aug 2023 - May 2025

- Grades:** 3.44 GPA, **Coursework:** Database systems, Artificial Intelligence, Advanced Operating Systems, Algorithms

Bachelor of Science

University of Delhi

New Delhi, India

June 2018 - May 2021

- Major in Computer Science, 8.35/10 CGPA

Skills

Languages:

JavaScript(**Node.js**), TypeScript(ES6+), Python, C, C++, SQL (**Postgres**), Java, HTML5, CSS3, PHP

Cloud Computing Services:

AWS (Lambda, EC2, S3, API Gateway, Step Functions, AppFlow, EventBridge, DynamoDB, CloudWatch, Route53, Glue Job, RDS, Firehose, CDK, IAM), GitLab CI/CD, GitHub Actions, Docker, Kubernetes, Microservices

Frameworks & Libraries:

Node.js, React.js, Redux, Express.js, Passport.js, **MongoDB**, MySQL, PostgreSQL, Django, GraphQL, Ruby on Rails, Lodash.js, GSAP, npm, Lazy Loading, Responsive Design, CORS, Figma, WebGL, Microfrontend, Jest, Problem-solver

Tools & Integration:

WebSockets, Swagger, Postman, Salesforce (Flows, Apex Trigger, Workbench, Platform events), Git/GitHub, OAuth 2.0, JWT, Material-UI, Confluence, Agile Environment, VS Code, Caching, RabbitMQ, Three.JS, D3, Jira

Database & Design:

MySQL, PostgreSQL, SQL Server, MongoDB (Load Balancing, Sharding), Firebase, Redis, Sequelize, Horizontal & Vertical Scaling, IoT protocols, MQTT, Load balancing, Sharding, Linux, Shell, **Data Structures and Algorithm**

Projects / Certification

[SynMob SmartCities](#) | Python, NumPy/Pandas, TensorFlow LSTM, GeoPandas, Matplotlib

Aug 2024 - Dev 2024

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

Software Engineer Role Certification

HackerRank

Jun 2025

- Credential ID: 8CD00227BDO9, Jun 2025 - Solved software engineering problems using JavaScript, NodeJS, React, HTML, CSS, and Python.