

MOHAMMAD ASHIF

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Education

Florida State University

Master of Science in Computer Science

Tallahassee, FL

Aug 2023 – May 2025

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

Experience

AWS Integration Intern

BigCommerce

May 2024 – Dec 2024

Austin, TX (Remote)

- Developed and managed APIs using API Gateway, Step Function, Lambda, and S3, enhanced by Route53 for efficient DNS management and monitored using CloudWatch. This infrastructure effectively supported object creation in salesforce.
- Designed an AWS Glue ETL job to automate the extraction and loading (ETL) of streaming data from S3 into DynamoDB.
- Implemented a bi-directional 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

Jan 2023 – Jul 2023

New Delhi, India

- 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

Jan 2021 – Dec 2022

Gurugram, India

- Engineered frontend and *backend* applications that can help consume the communication towers data to analyze and build a stable network for their customers using **NodeJS**, Express, **MongoDB**, OAuth, and MySQL, React, Typescript.
- Optimized system performance by implementing *advanced caching mechanisms* and efficient message queues, reducing data retrieval times by 40% and *increasing message processing throughput by 50%*, enhancing application reliability
- Built Microservices and Web Services (incl. **REST/SOAP**) to help monitor 5G tower data reducing API response time by 40% as compared to previous services using the latest methods and query improvements in the backend

Front-End Developer

Bosler

May 2020 – Dec 2020

Colomiers, France (Remote)

- Enhanced web interface interactivity and visual appeal by integrating WebGL, Canvas API, and CSS animations, resulting in a *40% increase in user engagement* through immersive particle effects, *SVG animations*, and **parallax scrolling**
- Upgraded a Big data platform by engineering new components for data management and visualization of millions of data, supporting partner business growth using React, JavaScript, Redux, **GSAP**, and D3

Projects

SynMob SmartCities | *Python, Django, LSTM Model, Machine Learning, Algorithm*

Aug 2024 – Dec 2024

- Extended the SynMob framework to generate a synthetic GPS trajectory dataset for Los Angeles, enhancing urban mobility research
- Validated the synthetic dataset's utility in identifying congestion points and optimizing traffic management

Octopusplus | *Node.js, Express, React, Axios, MUI, MongoDB Atlas, Sharding, Firebase*

Jan 2024 – Apr 2024

- Built a fault-tolerant file management system, Octopusplus, that enhances data availability and operational efficiency by 70% compared to traditional methods through optimized sharding, ensuring scalable storage solutions and secure data transactions

Technical Skills

Languages:

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

Cloud 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

Frameworks & Libraries:

Node.js, React.js, Redux, Express.js, Django, GraphQL, **Material-UI**, Lodash.js, GSAP, npm, Lazy Loading, Responsive Design, CORS, **Figma**, WebGL, Microfrontend, Microservices

Tools & Integration:

WebSockets, Swagger, Postman, Salesforce (Flows, Apex Trigger, Workbench, Platform events), Git/GitHub, OAuth 2.0, JWT, Confluence, Agile Environment, VS Code, **Caching**, RabbitMQ

Database & Design:

MySQL, PostgreSQL, SQL Server, MongoDB (Load Balancing, Sharding), Firebase, Redis, Sequelize, Horizontal & Vertical Scaling