

MOHAMMAD ASHIF

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Education

Master of Science in Computer Science **Florida State University** *Tallahassee, Florida* **Aug 2023 - May 2025**

- **GPA:** 3.44/4.00, **Coursework:** Database systems, Artificial Intelligence, Advanced Operating Systems, Advanced Algorithms

Skills

- **Programming Languages** Python | JavaScript / Typescript | C/C++ | Java | PHP
- **Cloud Platforms & Services** AWS (Lambda, EC2, S3, **API Gateway**, **Step Functions**, AppFlow, **EventBridge**, DynamoDB, CloudWatch, Route53, Glue Job, RDS, Firehose, **CDK**, IAM), GCP(Cloud Run, Google Kubernetes Engine)
- **DevOps & Automation** Kubernetes, Docker, GitLab, CI/CD, Grafana, Prometheus
- **Web Development** **React**, Redux, Webpack, **NodeJS**, Express, Django, HTML/CSS, REST API, Microfrontend, Microservices, GSAP, D3, Three.JS, MUI.
- **Database Management** MongoDB (**Load balancing**, **Sharding**), MySQL, PostgreSQL, Firebase, Redis
- **Tools & Integration** Salesforce (Flows, Apex Trigger, Workbench, Platform events), Marketo, Bitbucket, Git/GitHub, OAuth, Jira, Shell, Linux, Confluence

Experience

AWS Integration Intern **BigCommerce** *Austin, Texas (Remote)* **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**. This infrastructure effectively supported object creation in salesforce through BigCommerce APIs.
- Built an AWS **Glue 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 and reduced manual intervention, enhancing operational reliability by 50%.
- Engineered secure, scalable AWS **RDS databases** using AWS **CDK**, while implementing robust **IAM policies** to enhance system security

Software Engineer **Dell Technologies** *New Delhi, India* **Sep 2022 - Aug 2023**

- Created multiple components for all **Microfrontend** applications of a customer-facing product called Lightning, improving user experience and interactions by 20% using the latest technologies of **React**, **Typescript**, **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, encompassing unit testing, end-to-end (**E2E**) **testing**, and **integration testing**, to ensure software reliability and performance in production.
- Pioneered web accessibility initiatives, meticulously aligning development practices with **WCAG standards** for enhanced inclusivity

Full-stack Software Engineer **Amantya Technologies** *Gurugram, India* **Jan 2020 - June 2022**

- Engineered frontend and backend applications that can help consume the communication towers data to analyze and build a stable network for their customers using **React**, **Typescript**, **NodeJS**, Express, **MongoDB**, **OAuth**, and **MySQL**.
- 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 5G tower data reducing API response time by 40% as compared to previous services by using the latest methods and query improvements in backend services.
- Revitalized a legacy system by migrating it to **Spring Boot**, resulting in a 30% reduction in response time and a 60% increase in overall system efficiency, demonstrating proficiency in **Java**, Microservices architecture, and optimizing code performance.

Frontend-Developer **Bosler** *Colomiers, France* **May 2019 - Dec 2019**

- 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.
- Enhanced a **Big data** platform by engineering new components for data management and visualization of millions of data, supporting partner business growth using **React**, **Redux**, **JavaScript**, **GSAP**, and **D3**.
- Increased application capabilities to render more animated 3D objects by almost 10 times by upgrading the framework to [Three.js](#)

Academic 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**

- Engineered a robust file management system, Octopusplus, that enhances data availability and operational efficiency through optimized sharding, ensuring scalable storage solutions and secure data transactions.