Mohammed Abdul Aftab Muddassir

716-228-5274 — m54@buffalo.edu — LinkedIn_aftab — GitHub_aftab

Skills

Programming Languages: Java, Python, C#/.NET, JavaScript
Framework & Tools: Spring Boot, J2EE, Hibernate, Git, Jenkins, Jira, HTML, CSS, Swagger API, Bitbucket, VS Code
AI/ML Frameworks: TensorFlow, Pytorch, Scikit-Learn
Cloud & DevOps: AWS, Kubernetes, Docker, Azure
Testing: JUnit, Cucumber, Swagger API
Databases: MS SQL Server, MySQL, Postgres

Experience

Software Engineer, LTIMindtree, Hyderabad, India **Dec 2021 – Jul 2024**

- Developed end-to-end Sales Tracker using Spring batch reducing the client's finance team's reconciliation time by 85%
- Implemented data sync from boutique databases to a central server, enabling real-time transaction updates under 500 ms
- Integrated third-party APIs for gift card usage and optimized SQL query design with JDBC integration and indexing, resulting in a 40% increase in customer visits and reducing response time from 6 seconds to 450 milliseconds
- Performed Root Cause Analysis on deadlocks and failed API calls, optimizing transaction order in multithreaded code, improving system efficiency by 30%
- Implemented AES-128 encryption, safeguarding sensitive customer data from unauthorized access and breaches
- Optimized and containerized CI/CD pipelines using AWS, Docker, and Jenkins, reducing deployment times by 20% for fast, reliable releases

Software Engineering Internship, LTIMindtree, Hyderabad, India **Aug 2021 – Dec 2021**

- Worked on bug fixes and code optimizations in the UAT environment
- Implemented ACL codes for the different types of employees in the organization
- Collaborated with senior team members to analyze customer requirements and understand the module

Education

Master of Science in Computer Science, **University at Buffalo**, NY, USA **Expected Graduation Date: Jun 2026**
- **Courses** - Algorithms, Machine Learning, Data Science, Computer Architecture, Computer Security, Operating Systems, Data Intensive Computing, Modern Network Concepts, Database System, Cloud Computing

Bachelor of Technology in Electronics Communication, **JNTU Anantapur** , AP, India **Aug 2017 – Jul 2021**
- **Courses** - Data Structures, Engineering Mathematics, C, C++, Digital System Design, VLSI Design, MATLAB

Projects

Customer Segmentation and Purchase Behavior Prediction for Retail Businesses **Sept 2024**

- Conducted extensive exploratory data analysis (EDA) and dimensionality reduction using PCA, providing visual insights into customer behavior and enhancing data-driven decision-making
- Implemented machine learning algorithms (Logistic Regression, Decision Trees, SVM) to predict customer purchase behavior, achieving an accuracy of over 85% in predicting future purchases
- Developed a customer segmentation model using K-Means clustering and RFM analysis, identifying distinct customer groups and enhancing targeted marketing strategies

Employee Management System **Dec 2021**

- Developed an Employee Performance Management System using Spring Boot, incorporating features such as awards and recognition. Implemented business logic to allocate points based on the type of award
- Implemented user roles based on ACL codes to manage permissions for raising and resolving employee tickets, reducing the average ticket resolution time from 4 days to 1.5 days
- Implemented JDBC in Spring boot to make operations in the MySQL database in the backend and segregated schema design which enhanced the performance of the system by 30%

Achievements

Spot On – Mastermind Award & Gracias Award – Team Player **LTIMindtree**

- In recognition of my contribution to successfully integrating the system's transactional data with the client's ERP system, identifying production issues, performing quick root cause analysis, and providing permanent fixes.
- Awarded for troubleshooting, problem-solving and collaborating with the back-end and front-end team to implement the sales and discount module, ensuring optimal code performance

Leadership Experience & Activities

Coordinator at Coders Club & Training and Placement Coordinator **JNTU Ananthapur**

- As a coordinator of the Coders Club, I, along with my team, organized several Computer Science workshops under the guidance of CSE faculty, helping students enhance their skills in a fun and competitive environment
- As part of the Training and Placement team, I was responsible for reaching out to potential recruiters and persuading them to visit our campus for career fairs. During my junior and senior years, we achieved a record placement rate of over 85%. Additionally, we organized several workshops on career guidance and higher education awareness.