Nouman Ahmed

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Experiences

ARCOSA, Inc.   Tulsa, OK
Software Engineering Intern   May - August 2024
1. Migrated steel analysis from Excel to a web application, reducing processing time by over 30%.
2. Designed and maintained ASP.NET Core APIs, enhancing system reliability.
3. Developed Angular user interfaces, improving tool usability and functionality.
4. Collaborated with engineers, presenting progress and outcomes weekly.

TECHIMPULSERS   Remote
Associate Software Developer   June 2021 - August 2023
1. Designed, developed, and deployed a high-traffic e-commerce platform using React, Spring Boot, and Kubernetes.
2. Architected and implemented microservices-based solutions, enhancing system scalability and resilience, resulting in a 35% improvement in load handling.
3. Integrated CI/CD pipelines using Jenkins and Docker, reducing deployment time by 50%.
4. Enhanced workflows by 15% through the implementation of a React-based task management interface.
5. Boosted collaboration efficiency by 25% using WebSocket protocols for real-time synchronization.
6. Conducted code reviews and ensured adherence to best coding practices and standards.
7. Collaborated with product managers, designers, and QA teams to gather requirements, design solutions, and deliver high-quality software on time and within budget.

UNIVERSITY OF TULSA   Tulsa, OK
Teaching Assistant, Fundamentals of Algorithms and Programming in Python   July 2023 – Present
1. Conducted labs of more than 35 students to program in Java, Python, and object-oriented concepts.
2. Maintained weekly office hours. Graded problem sets, exams, and projects.

Technical Skills & Projects

Data Structure and Algorithms
Languages: Java, C#, C++, Python, SQL, JavaScript, TypeScript
Frameworks: .NET core, Spring Boot, Flask, Angular, React, Node.js
Tools: Git, Docker, Kubernetes, Jenkins, JIRA, Terraform
Databases: MySQL, MongoDB, PostgreSQL, SQL Server, Redis
Machine Learning: Transformers, Deep Neural Networks, Reinforcement Learning, Decision Tree, SVMs, Unsupervised Learning, Statistical Pattern Recognition

Chat Application with Real-Time Features ~ Angular, Spring Boot, WebSocket, MySQL
Developed a chat application using Angular and Spring Boot, supporting real-time messaging and notifications.
1. Achieved real-time communication using WebSocket protocols, enhancing user interaction.
2. Implemented features such as user presence status, message history, and group chats.

Personalized Recommendation System using Deep ~ Learning Flask, PostgreSQL, React
Developed a personalized recommendation system for a web application to deliver tailored product suggestions using deep learning algorithms.
1. Improved user engagement by 25% and increased average order value by 15%.
2. Boosted customer retention by 12% as personalized recommendations encouraged repeat visits and purchases.

Education

UNIVERSITY OF TULSA   Tulsa, OK
MS in Computer Science, GPA: 3.8/4.0   May 2025
Relevant Coursework: Analysis of Algorithms, Machine Learning, Statistical Pattern Recognition, Evolution of Computation, Introduction to Computer Engineering, Fundamentals of Cyber Security
JOLT Fellow – Entrepreneurship Program at University of Tulsa.