Muhammad Mahir

Linktree site

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EXPERIENCE

Octopus Digital (Avanceon) — Lahore, Pakistan
Full Stack Developer — *April 2023 - Present*

- **Architect, Develop, and Sustain Web Solutions**: Utilized .NET Core, SQL, and Angular to drive digital transformation, optimizing user experiences and achieving a 30% increase in conversion rates and a 20% decrease in bounce rates.
- **AI-Driven Development Leadership**: Led the implementation of AI-driven development practices, resulting in a 20% reduction in the time required to develop new features.
- **OmniConnect**: A cloud-native IT/OT convergence platform to collect, transform, enrich, access, and analyze disparate manufacturing data in real time for actionable insights to drive business performance outcomes.
  - **Developed and optimized asset hierarchy visualization**: Leveraged third-party libraries and advanced data structures to enhance visualization and manipulation of asset hierarchies.
  - **Engineered Audit Trail for user activity**: Enabled detailed tracking of user actions for better security, transparency, and accountability across the platform.
  - **Enhanced alarm and data monitoring systems**: Upgraded the data and system alarm viewer by adding custom filter capabilities and actionable buttons to improve user interaction and monitoring efficiency.
  - **Implemented scalable tag and asset management workflows**: Integrated pagination APIs to streamline workflows, ensuring efficient handling and scalability of tag and asset data.
  - **Streamlined bulk asset and tag configurations**: Facilitated bulk configurations through optimized Excel/CSV imports, improving efficiency and reducing manual effort.

EDUCATION

FAST NUCES — Lahore, Pakistan
Bachelor of Science in Computer Science — *Aug 2019 - May 2023*

- **Relevant CourseWork**: Software Engineering, Algorithms and Data Structure, Artificial intelligence, Software Design and Analysis, Object Oriented Programming (OOP), Professional Practices, NLP, Bioinformatics, Software Testing, Information Retrieval, and Cloud Computing

KEY PROJECTS

- **Heal Labs**: Designed and Engineered an AI-driven healthcare platform built with MERN stack to streamline doctor-patient appointment scheduling and manage healthcare services.Deployed on AWS EC2 using Nginx and PM2, with future plans to integrate AI features like Pre-Diagnosis Chatbot, Pathology Report Analysis, and Efficient Record Maintenance
- **Logistics Automation Platform**: Worked on a logistics automation web-based platform based on the Shared Truck Load paradigm with features such as Tracking and Monitoring, Booking and Scheduling, and Cargopool shipments, using MERN stack in a group of 3.
- **Kanban Board**: Developed an advanced task management and workflow organization application using Angular 17 and Angular CDK,ensuring a seamless user experience with optimized performance.
- **Search Engine**: Pioneered a complete search engine with comprehensive Indexing and Retrieval features, improving search accuracy and performance
- **Job Recommender System**: Orchestrated a Job Recommender system based on collaborative filtering to provide recommendations based on users' search queries and past preferences.
- **Software Testing**: Conducted end-to-end testing across multiple open-source projects, including writing test cases, automating UI, API, Unit, and Performance testing, and tracking bugs through Jira

TECHNICAL SKILLS

- **Technologies:** .Net Core, EF Core, Angular, TypeScript JavaScript, HTML, CSS, SASS, Python, React, Node.js, MongoDB, SQL, REST API, Azure

- **Development Tools and Frameworks:** MUI, React Router, CodeceptJS, Express.js, GitHub Copilot, Git, Angular CLI, Jest, Jira, Postman, Nginx.

- **Professional Certifications:** Pearson's IT Specialist (Cloud Computing), Meta Front-End Developer Professional Certificate, Google's Python Automation Crash Course