

# Muhammad Fawad

## Associate Software Engineer

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Portfolio Website • LinkedIn • GitHub

### Summary

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As an Associate Software Engineer with over two and a half years of hands-on experience, I have a strong understanding of React.js, Angular, Vue.js, Express.js, Nest.js, Node.js, MongoDB, SQL, Bootstrap, and Tailwind CSS. I also possess a solid foundation in data science, utilizing Scikit-learn and TensorFlow, and expertise in Natural Language Processing (NLP), particularly with RoBERTa. I am eager to contribute and grow in a fast-paced, dynamic environment.

### Work Experience

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#### Full Stack Developer, Bright Techno Tonic

Nov 2023 – Present

- Built and maintained full-stack web applications for delivering online courses using the MEAN and MERN stacks—primarily Angular, React, Node.js, Express, and MongoDB.
- Developed features for educational websites, including course listings, instructor dashboards, student profiles, and enrollment workflows, ensuring responsive design and smooth navigation.
- Implemented user authentication and authorization using JWT and session management to secure student and admin portals.
- Built RESTful APIs to handle core functionalities like course enrollment, progress tracking, quiz submissions, and certificate generation.
- Utilized Angular with NgRx to manage complex application state, ensuring scalability and maintainable code for frontend modules.
- Integrated React components with backend APIs to create dynamic learning experiences, including video lectures, assignments, and real-time feedback.
- Focused on code optimization, including lazy loading, debouncing, and bundle splitting, to reduce load times and improve performance.
- Designed reusable UI components with Tailwind CSS and Bootstrap, aligning with UX/UI best practices for mobile-first design.
- Collaborated closely with remote product and design teams via Agile workflows, participating in sprints, daily standups, and code reviews.
- Deployed applications to cloud-based environments (e.g., Vercel, Netlify, or DigitalOcean) and managed backend services via PM2 and MongoDB Atlas.

#### Associate Software Engineer, MicroAgility

Jul 2024 – Feb 2025

- Created Angular-based dynamic and responsive landing pages that seamlessly integrated with the user interface and application design.
- Implemented efficient HTTP client communication and dynamic data binding, utilizing Angular directives, ViewChildren, and lifecycle hooks for optimized performance.
- Optimized application performance up to 90% through lazy loading, asset size compression, and best practices in code efficiency.

- Enhanced user interface with DOM manipulation and Swiper slider integration, providing smooth and interactive user experiences.
- Integrated NgRx state management, implementing store-level architecture to manage application state efficiently.
- Designed and dispatched actions, reducers, and selectors to handle global state, ensuring smooth data flow and maintainability.
- Implemented lazy loading and route guards for optimized navigation and enhanced security.
- Developed reusable components and custom directives to maintain code modularity and reusability.
- Received positive feedback from team members for delivering high-quality work, adhering to best practices, and maintaining performance standards.

#### **Software Engineer Intern, Apex Space**

*Jul 2023 – Aug 2023*

- Developed dynamic web applications using HTML, CSS, JavaScript, and React, ensuring responsiveness and reusable components.
- Created responsive layouts with Bootstrap and Tailwind CSS, delivering seamless cross-device user experiences.
- Built RESTful APIs with Node.js and Express, facilitating efficient data interaction with MongoDB.
- Collaborated with senior developers to integrate full-stack features, enhancing overall application functionality.
- Utilized Git for version control and contributed to code reviews, following best practices for clean and efficient code.

#### **Software Engineer Intern, TIERS Limited**

*Jun 2023 – Aug 2023*

- Designed and implemented a hotel reservation system from scratch, incorporating features such as real-time room availability, user authentication, and payment integration.
- Utilized the MERN stack to build dynamic web applications, focusing on performance optimization and seamless user experiences.
- Developed secure and scalable RESTful APIs with Node.js and Express, connecting to MongoDB for efficient data storage and retrieval.
- Enhanced user interfaces with React, incorporating custom components and hooks to ensure an intuitive and responsive design.
- Worked closely with team members to troubleshoot complex issues, debug applications, and deliver a fully functional solution on time.

## **Freelance Work**

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## **Certifications**

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**IBM Full Stack Software Developer  
Intro to Data Science**

*Coursera  
SimpliLearn*

## **Education**

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**Bachelors of Computer Sciences,  
University of Engineering and Technology, Lahore**

*Oct 2020 – May 2024*