

Sarmad Hussain

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EDUCATION

NED University of Science and Technology, Karachi — MSIS

Master of Science – Information Security

Karachi, Pakistan

Bahria University, Karachi — BSCS

Bachelor of Science in Computer Science

Karachi, Pakistan

WORK EXPERIENCE

TECHLOGIX, Karachi -Senior Software Engineer

Aug 2023 - Ongoing

TECHLOGIX, Karachi -Software Engineer

Aug 2021 - Aug 2023

- Currently leading the development of AI-driven features in a project built with Next.js, TypeScript, Tailwind, and NestJS, leveraging OpenAI APIs to deliver full-stack user stories from backend to frontend.
- Contributed to the payroll and other modules of a global expansion platform, implementing frontend features using JavaScript, TypeScript, React.js within a micro-frontend architecture to enhance UX and data flow.
- Designed and developed 50+ frontend features based on complete business logic and product requirements using JavaScript, TypeScript, HTML, CSS, SCSS, and Tailwind, ensuring cross-browser compatibility and responsive design for optimal user engagement.
- Implemented AI-driven solutions for an application that leverages generative AI and large language models (LLMs) to process complex requests and documents, streamlining workflows and enhancing data processing capabilities.
- Writing comprehensive unit test cases using JavaScript testing libraries such as Jest, Enzyme, and React Testing Library, to guarantee code reliability and maintainability, resulting in improved overall application quality and increasing the code coverage up to 85%.
- Utilizing CI/CD on Microsoft Azure DevOps for seamless deployment. Collaborating with the team on Microsoft Azure DevOps to manage sprint tickets, repository, deployment, and pipeline issues, ensuring efficient project management and continuous integration/delivery.
- Developed backend services in C# and .NET framework for a banking application. Led migration of 100 web services from .NET Framework 4 to RESTful APIs adhering to .NET 5 standards.

TECHNEXIA, Karachi – Executive Software Developer

Dec 2020 - Aug 2021

- Designed database using ERD and strategized project for potential product utilization.
- Developed optimized 20+ Web APIs for superior performance, leveraging JavaScript frameworks.
- Constructed numerous web applications from inception, maintaining and enhancing them using ASP.NET MVC architecture with Entity Framework and SQL Server database.
- Crafted stored procedures, functions, and triggers to optimize database performance at the application level, integrating JavaScript where applicable.
- Provided a complete Microsoft Azure DevOps database architecture solution for a US based client to increase the overall performance of the web application through regional database.

PIXICLE TECHNOLOGIES - Software Engineer

Jul 2019 - Nov 2019

- Started development career here with Microsoft technologies like C#, Asp.net, SQL and JavaScript.
- Got hands-on experience with JavaScript by developing many small-scale applications.
- Created the tracking module for a car tracking company using open-source map library Leaflet.js.

PROJECTS

TERRA - YOUR SMART ASSISTANT FOR TASK MANAGEMENT & SEAMLESS DEVELOPMENT (2024) A project that got first position at Techlogix's AI Hackathon, an intelligent assistant platform leveraging LLMs and generative AI to optimize development workflows. Integrated task management tools with AI-driven insights and automation, enhancing productivity and centralized knowledge access.

DISEASE DETECTION USING TEXT MINING AND SENTIMENT ANALYSIS OF TWITTER DATA. FYP (2019) A research-based project focused on the possibility of detecting disease outbreaks in large areas using the data extracted from the twitter API by running sentiment analysis after preprocessing (cleaning, tagging) of the data and then using machine learning algorithms to get the desired result.

TECHNICAL SKILLS

Programming: JavaScript, Typescript, React.js, Next.js, Node.js, NestJS (familiar), Tailwind CSS, C#, Python, SQL, MSSQL, Object Oriented Programming, Asp.net MVC, Entity framework, Design Patterns

Security & Compliance: Secure coding practices (OWASP Top 10), Web Security Standards, OAuth 2.0, JWT Authentication

Testing & Validation: Jest, Enzyme, React Testing Library, SonarQube

Cloud & DevOps: Microsoft Azure DevOps, CI/CD pipelines with security enforcement

CORE COMPETENCIES

Cybersecurity & Secure Coding | Code Reviews & Security Audits | Problem Solving & Critical Thinking | Team Collaboration & Leadership | Communication Skill | Decision Making | Public Speaking | Research and Strategy