Muhammad Yasir Ghaffar

Full Stack Software Engineer

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EXPERIENCE

Full Stack Engineer

January 2025 – Present Remote

Freelance

- Leading full-stack development projects specializing in modern web technologies with comprehensive AWS integration
- Developed responsive web applications using Next. is and React. is with modern UI/UX principles
- Built serverless solutions with MongoDB and DynamoDB for scalable data management
- Integrated AWS services including Lambda, API Gateway, IoT Core, and CloudWatch for enterprise-grade solutions
- Implemented CI/CD pipelines and GitHub collaboration workflows improving deployment efficiency

Full Stack Software Engineer

January 2024 – January 2025

4Loop Automation

Hybrid, Faisalabad

- Led development of industrial SCADA systems and automation solutions for 10+ enterprise clients
- Architected Windows applications and Next.js web dashboards for real-time industrial monitoring with 99.8% uptime
- Built real-time data visualization systems with Firebase RTDB serving live updates to industrial users
- Integrated IoT devices using ESP32/ESP8266 and RS485 protocols creating comprehensive sensor networks
- Automated email and Excel reporting systems eliminating manual work and improving operational efficiency

MERN Stack Developer Intern

July 2024 – September 2024

DevLogix Technology

Remote

- Developed AI-powered HR management platform using MERN stack with machine learning capabilities
- Built intelligent candidate screening with automated skill matching algorithms reducing manual review time
- Optimized MongoDB queries and indexing for improved application performance
- Developed secure JWT authentication system with role-based access control

Logistics Executive

2023 - 2024

NUST Hack Club

Islamabad, Pakistan

- Coordinated web development workshops and programming competitions across campus
- Collaborated with cross-functional teams to organize tech events and hackathons
- Managed logistics for 10+ technical events facilitating knowledge sharing on modern web technologies

EDUCATION

National University of Sciences and Technology (NUST)

Islamabad, Pakistan

Bachelor of Software Engineering (June 2025)

2021 - 2025

Relevant Coursework: Web & Mobile Development, Full-Stack Programming, Object-Oriented Programming, Data Structures & Algorithms, Cloud Computing, Machine Learning, Software Quality Engineering

TECHNICAL SKILLS

Frontend Development: React.js, Next.js, TypeScript, JavaScript ES6+, HTML5, CSS3, Tailwind CSS

Backend Development: Node.js, Express.js, RESTful APIs, Microservices, AWS Lambda

Databases: MongoDB, PostgreSQL, DynamoDB, Redis

Cloud & DevOps: AWS (Lambda, DynamoDB, IoT Core), Firebase, Vercel, Git

Industrial & IoT: SCADA Systems, Modbus RTU, Real-time Monitoring, IoT Device Management

Desktop Development: C# WPF, .NET Framework, Windows Forms

PROJECTS

Tergu Camper Area - Enterprise IoT Camping Platform

2025

- Technologies: AWS Serverless (Lambda, DynamoDB, IoT Core), Next.js 15, TypeScript, Tailwind CSS
- Complete camping management platform with real-time IoT device control and automated booking systems
- Implemented intelligent booking engine with dynamic pricing and automated barrier control systems
- Achieved significant reduction in manual operations through serverless automation and real-time device management Sadaqat Textile Solar SCADA System 2024
 - Technologies: WPF Desktop Application, Modbus RTU Communication, Firebase, Next.js Dashboard
 - Industrial WPF desktop application reading real-time data from Huawei solar inverters via Modbus RTU protocol
 - Implemented serial communication for live energy monitoring with 2-second data collection intervals
 - Automated daily production reports with PDF/Excel generation and stakeholder email distribution

Kamal Textile Energy Management System

2024

- Technologies: WPF .NET 8.0, Modbus RTU, Material Design, OxyPlot, SQL Server
- Advanced WPF desktop application for industrial energy monitoring using Modbus RTU communication protocols
- Real-time data acquisition from industrial devices with multi-phase management and comprehensive analytics
- Professional dashboards with efficiency calculations and predictive maintenance capabilities

Full-Stack Blog Application

2024

- Technologies: Next.js 13+, TypeScript, MongoDB, NextAuth.js, Tailwind CSS
- Comprehensive blogging platform with server-side rendering and content management system
- Advanced features including rich text editor, comment system, and multi-author support
- SEO optimization with meta tag management and search engine friendly architecture

FLUX.1-Schnell AI Image Generator

2024

- Technologies: React, Node.js, Hugging Face API, MongoDB, Rate Limiting
- AI-powered image generation platform with advanced prompt processing and gallery management
- Implemented intelligent rate limiting and user management for optimal system performance
- Built professional image generation tool with high-quality output and user-friendly interface

CERTIFICATIONS

Machine Learning Specialization - Stanford University & DeepLearning.AI

February 2024

Meta Front-End Developer Professional Certificate - Meta

September 2023

IBM Full Stack Software Developer Professional Certificate - IBM

January 2024

HackerRank Skills Certifications: React, JavaScript, Python

2023-2024