

# MUHAMMAD MUZAMMIL KHAN

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[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

## PROFESSIONAL SUMMARY

Full Stack Engineer with 2+ years of experience building enterprise applications and automation systems. Expertise in MERN stack, Azure Cloud, and AI solutions. Eliminated 60+ hours of manual work monthly, reduced errors by 90%, and delivered scalable solutions for international clients including AI assistants for refinery operations.

## TECHNICAL SKILLS

**Frontend:** React.js, Next.js, JavaScript (ES6+), HTML5, CSS3, TanStack Query, Responsive Design

**Backend:** Node.js, Express.js, ASP.NET, RESTful APIs, Redis, Authentication & Authorization

**Databases:** MongoDB, MySQL, Database Design & Optimization

**Cloud & DevOps:** Azure Cloud Services, Azure DevOps, CI/CD Pipelines

**Tools:** Git, OOP, Data Structures & Algorithms

## PROFESSIONAL EXPERIENCE

### Full Stack Engineer | Pakistan Agriculture Research

May 2025 – Present | Karachi, Pakistan

- Built MERN Stack admin panel eliminating 60+ hours of manual data entry per month and reducing errors from 20% to under 2%. Teams manage data through intuitive interface with real-time dashboard updates using TanStack Query and Redis

### Client: Data Pioneer Solutions (US-Based)

- Built Refinery Intelligence System - AI assistant for real-time refinery operations including feedstock selection, maintenance, carbon credit optimization, and compliance
- Automated complex refinery calculations (netback value, CI scores) and implemented predictive maintenance analysis
- Developed intelligent document retrieval system with instant access to technical documentation based on live market feeds and sensor data

### Data Analytics Developer Trainee | Master Motor Corporation Pvt. Ltd.

February 2025 – April 2025 | Karachi, Pakistan

- Developed HR dashboard using Next.js with Excel-to-Power BI transformation, reducing manual reporting time by 35%
- Built Learning Management System with role-based access, progress tracking, and real-time reporting for employee training

### React/Node.js Developer | Fission Fox

August 2024 – January 2025 | Karachi, Pakistan

- Delivered 8+ full-stack applications using React.js, Node.js, and MongoDB, achieving 30% improvement in page load times
- Engineered RESTful APIs and collaborated with UI/UX teams, resulting in 40% increase in user satisfaction

## EDUCATION

### Bachelor of Computer Science | Bahria University Karachi | 2021–2025 | CGPA: 3.34/4.0

**Relevant Coursework:** Software Engineering, DSA, AI, Mobile App Development, DBMS, OOP

## ADDITIONAL INFORMATION

**Languages:** English (Professional), Urdu (Native)

Key Projects:

- PAR Admin Panel (MERN) - Automated data management system eliminating 60+ hours monthly with 90% error reduction
- PlantDPS - Refinery Intelligence System (React 19 + Azure + AI) - Enterprise AI assistant for real-time refinery operations with automated calculations and predictive maintenance
- AI Recruitment Assistant (Python + ML) - ML-powered candidate selection tool reducing screening time by 70%