

MUHAMMAD MUDDASIR RAFIQUE

Senior Software Engineer | Full Stack Developer | AI/ML Enthusiast

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PROFESSIONAL SUMMARY

Results-driven Senior Software Engineer with 5+ years of experience building scalable web and mobile applications using JavaScript, TypeScript, React.js, Angular, Node.js, and Go (Golang). Proven track record delivering high-quality solutions for international and domestic clients. Strong expertise in Geographic Information Systems (GIS) and geospatial technologies including Mapbox, PostGIS, and Cesium. Proficient in cloud infrastructure on Amazon Web Services (AWS) and Google Cloud Platform (GCP). Currently pursuing MS in Data Science with specialization in Machine Learning (ML), Natural Language Processing (NLP), and MLOps.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Go (Golang), Python, SQL, HTML5, CSS3

Frontend: React.js, Angular, Next.js, Tailwind CSS, Material-UI (MUI), Responsive Design

Backend: Node.js, Express.js, RESTful APIs, GraphQL, Microservices

Mobile: React Native (iOS & Android), Cross-Platform Development

Databases: PostgreSQL, PostGIS, MongoDB, MySQL, Elasticsearch

GIS & Mapping: Mapbox, Mapbox GL JS, Cesium, GeoJSON, IMDF, NDVI Satellite Analysis

Cloud & DevOps: Amazon Web Services (AWS), Google Cloud Platform (GCP), Docker, CI/CD Pipelines

AI / ML: Machine Learning (ML), NLP, Generative Adversarial Networks (GANs), TensorFlow, Scikit-learn, MLOps

Tools: Git, GitHub, Jira, Figma, Postman, Linux, Agile/Scrum

PROFESSIONAL EXPERIENCE

Senior Software Engineer

Farmdar

Jan 2024 – Present • Lahore, Pakistan (Hybrid)

- Develop GIS-based agricultural visualization systems using Mapbox for rendering polygons, field boundaries, and spatial data layers
- Implement satellite imagery analysis pipelines including NDVI processing for crop health monitoring across large agricultural regions
- Architect and optimize PostgreSQL/PostGIS database schemas for boundary management and geospatial survey data storage

- Collaborate with cross-functional teams of data scientists and agronomists to deliver data-driven agricultural insights

Software Engineer (Part-time)

Web Tool Enhancements & Customer Portal — US-based SaaS Product

Dec 2024 – Jan 2026 • Remote

- Built and enhanced web tools and a customer portal for a long-running SaaS product using React.js, Node.js, and PostgreSQL
- Delivered 1,346+ hours of feature development including analytics dashboards, campaign management tools, and interactive UI components
- Implemented complex frontend features such as popup menu systems, responsive layouts, and real-time data visualization
- Maintained 100% delivery success rate with 5.0/5.0 client satisfaction across all project milestones

Senior Frontend Engineer

Techbrainz

Oct 2023 – Jan 2024 • Lahore, Pakistan (On-site)

- Led frontend development for complex enterprise applications, implementing advanced UI features and state management using React.js and TypeScript
- Conducted thorough code reviews and mentored junior developers, improving team code quality and delivery speed
- Developed responsive, accessible, and performant web interfaces with comprehensive test coverage
- Collaborated with UX designers and backend engineers to deliver seamless full-stack features on schedule

Frontend Developer (Part-time)

Boostify — US-based Marketing Platform

Aug 2022 – Oct 2023 • Remote

- Built marketing automation platform features using React.js, Node.js, and MySQL for a US-based SaaS product
- Developed analytics dashboards and campaign management tools to help businesses optimize their online presence
- Managed code reviews and ensured high code quality standards across the frontend codebase

Full Stack Developer

Cloudpacer

Aug 2022 – Sep 2023 • Lahore, Pakistan (On-site)

- Migrated legacy Angular applications from older versions to the latest framework, improving performance and maintainability
- Implemented modern Angular features and restructured frontend architecture following industry best practices
- Developed full-stack solutions with Node.js backends and PostgreSQL database integration

Associate Software Engineer

Government College University, Lahore

Aug 2020 – Jul 2022 • Lahore, Pakistan (On-site)

- Built Campus Management System using Angular, Node.js, and MongoDB for student and faculty management
- Developed Student Facilitate System portal for academic assistance and faculty-student communication
- Participated in code reviews and Agile development processes, consistently delivering features on schedule

EDUCATION

Master of Science (MS) in Data Science

Punjab University College of Information Technology (PUCIT), Lahore

2024 – Present

Coursework: Machine Learning, Statistical Analysis, NLP, MLOps, Modern Information Retrieval

Bachelor of Science (BS) in Computer Science

Government College University, Lahore (GCUL)

2018 – 2022

Coursework: OOP, Data Structures, Algorithms, Database Systems, Visual Programming

CERTIFICATIONS

- AWS Cloud Technical Essentials – Coursera (2025)
- AWS Cloud Technology Consultant – Coursera (2025)
- Angular 17 Overview & Basics – Coursera (2025)
- Angular for Frontend Engineers – Coursera (2025)
- Generative AI: Introduction and Applications – Coursera (2025)
- Introduction to Information Technology and AWS Cloud – Coursera (2025)

RESEARCH

Text to Gesture: Improving Avatar Generation for Pakistan Sign Language

MS Thesis (In Progress) – Utilizing Generative Adversarial Networks (GANs) for Pakistan Sign Language (PSL) production systems, addressing a significant research gap in automated sign language gesture generation and avatar animation.

KEY PROJECTS

- **Geospatial Mapping Applications:** Built interactive mapping solutions using Mapbox, Cesium, and GeoJSON for 3D visualization and location-based features
- **Campus Management System:** Comprehensive solution for educational institutions with student management, course scheduling, and admin tools (Angular, Node.js, MongoDB)
- **Precise Builder:** Construction project management app with real-time collaboration, task tracking, and resource allocation (React, TypeScript, PostgreSQL)