

# MUHAMMAD SULMAN SIDDIQUI

Team Lead · Senior Full Stack Developer · Government & Defence Sector

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## ABOUT ME

Senior Full Stack Developer and Team Lead with **8+ years** of progressive experience architecting and delivering **mission-critical digital systems** across **government, defence, and enterprise sectors**. Currently with **Malomatia Q.S.C.**, contributing to **Qatar National Vision 2030** through the full-stack development of the **National Planning Council (NPC) National Census Platform—a high-availability analytics platform** supporting government decision-making across population, housing, and economic domains.

Brings extensive enterprise experience alongside proven **defence-sector expertise**, having delivered operational systems for the **Pakistan Air Force (PAF)** and **Pakistan Aeronautical Complex (PAC Kamra)**, including an **Aircraft Configuration Management System** supporting international defence programs.

Strong technical expertise in **NestJS, Node.js, .NET Core, React.js, Next.js, Oracle, SQL Server, PostgreSQL, MongoDB, OCI, AWS, and Azure**, with additional experience in **microservices, Redis, GraphQL, and CI/CD**. A hands-on technical leader combining **solution architecture, full-stack engineering, stakeholder management**, and disciplined delivery in complex enterprise environments.

## WORK EXPERIENCE

### Senior Full Stack Developer | Malomatia Q.S.C. | Doha, Qatar | Dec 2025 - Present

- **Role:** Full Stack Developer on the National Planning Council (NPC) Census Platform, responsible for frontend analytics dashboards, backend API services, database integration, and performance optimisation for population, housing, and economic intelligence.
- **Key Achievements:** Delivered core Population and Housing analytics modules and supported the technical onboarding of new team members. Improved API and database performance through Oracle query optimisation, stored-procedure tuning, precomputed aggregations, and Redis caching.
- **Frontend:** Developed interactive analytics dashboards using React.js, Next.js, and D3.js, including geospatial maps, drill-down visualisations, KPI dashboards, and tabular statistical reports.
- **Backend:** Designed modular NestJS services and REST/GraphQL APIs with Redis caching, authentication, validation, and role-based access controls for secure access to large-scale census datasets.
- **Database:** Developed and optimised Oracle PL/SQL procedures, indexes, execution plans, materialised datasets, and aggregation pipelines for high-volume statistical reporting.
- **Tech Stack:** React.js, Next.js, D3.js, NestJS, Node.js, GraphQL, Oracle Autonomous Database, PL/SQL, Redis, Docker, Oracle OCI.

### Team Lead & Full Stack Developer | Crypttech | Islamabad, Pakistan | Feb 2024 - Nov 2025

- **Role:** Led architectural decisions and hands-on development of enterprise web and mobile applications while managing and mentoring developers across frontend and backend delivery.
- **Key Achievements:** Improved system throughput by approximately 40% through asynchronous processing, Redis caching, database indexing, and query optimisation. Established code-review practices and engineering standards to improve maintainability and delivery quality.
- **Frontend:** Developed enterprise web and mobile applications using React.js and React Native, including real-time notifications, geolocation, offline functionality, Redux Toolkit, and React Query.
- **Backend:** Built scalable NestJS/Node.js services using RabbitMQ for asynchronous messaging and Elasticsearch for search capabilities.
- **Database:** Optimised PostgreSQL queries and indexing strategies and implemented Redis caching to reduce database load on high-traffic endpoints.
- **Tech Stack:** React.js, React Native, NestJS, Node.js, RabbitMQ, Redis, Elasticsearch, Redux Toolkit, React Query, PostgreSQL, Docker, CI/CD.

**Full Stack Developer | Shaheen Foundation IT Unit | Islamabad, Pakistan | Sep 2021 - Jan 2024**

- **Role:** Developed secure internal web applications supporting Pakistan Air Force-related operational and administrative workflows.
- **Key Achievements:** Developed a digital mailing and document-management platform that significantly reduced paper-based workflows and processing times. Built GIS-enabled dashboards supporting operational monitoring and decision-making.
- **Frontend:** Developed React.js and Angular applications for document management and GIS-integrated dashboards with real-time data visualisation.
- **Backend:** Built Node.js REST APIs with access controls, audit logging, session management, and secure application practices.
- **Database:** Designed and optimised SQL Server schemas, stored procedures, document-tracking workflows, and user-activity logging.
- **Tech Stack:** React.js, Angular, Node.js, SQL Server, GIS APIs, REST APIs.

**Senior Front-End Developer | Pakistan Aeronautical Complex | Kamra, Pakistan | Sep 2020 - Sep 2021**

- **Role:** Developed web-based interfaces supporting aircraft configuration management, maintenance tracking, and cost-estimation systems for military aviation programs.
- **Key Achievements:** Contributed to an Aircraft Configuration Management System and developed interfaces for maintenance tracking and cost-estimation solutions supporting international aviation programs.
- **Frontend:** Developed React.js and Angular dashboards for aircraft configuration, maintenance status, compliance tracking, and cost reporting.
- **Backend & Database Integration:** Integrated frontend applications with REST APIs and SQL Server data services covering aircraft configuration, maintenance schedules, spare-parts inventory, and cost information.
- **Tech Stack:** React.js, Angular, JavaScript, HTML5, CSS3, REST APIs, SQL Server.

**Web Developer | Infinity Technologies | Islamabad, Pakistan | May 2018 - Sep 2020**

- **Role:** Full-stack web developer building client websites, admin panels, and e-commerce platforms for SME and corporate clients using React.js, Node.js, and WordPress.
- **Achievement:** Introduced performance-optimisation and SEO best practices across client projects, measurably improving page-load scores and search rankings; delivered 10+ production websites across retail, services, and government-adjacent sectors.
- **Highlights:** Responsive React.js frontends and admin dashboards; Node.js backend services and REST APIs for client portals; custom WordPress themes and plugins with WooCommerce e-commerce functionality.

**No-Code Developer | Independent / Self-Employed | Remote | 2020 - Present (Part-Time)**

- **Role:** Independent web designer and no-code developer serving international clients — managing full project lifecycles from discovery and wireframing through design, development, and launch.
- **Achievement:** Delivered 200+ client projects across WordPress, Framer, Webflow, and Wix for startups, agencies, and professional-services firms, with consistent on-time delivery and repeat client engagements.

KEY AREAS OF EXPERTISE

**Government & Enterprise Digital Solutions**

- Large-scale data platforms (census & analytics systems)
- Workflow automation & e-Government services

**Microservices & Cloud Architecture**

- NestJS / .NET Core microservices
- API Gateway, RabbitMQ, Redis caching
- Scalable system design (OCI / AWS / Azure)

**Frontend Engineering & UI Systems**

- React.js, Next.js, React Native
- Dashboard development & reusable UI components
- Performance optimisation & responsive design
- Efficient handling of tens of millions of records

**Data Engineering & High-Performance Databases**

- Oracle (ADB), SQL Server, PostgreSQL
- Stored procedures & query optimisation

**GIS & Data Visualisation**

- Map-based analytics (GeoJSON, spatial data)
- D3.js charts & real-time dashboards

**System Integration & DevOps**

- REST + GraphQL APIs
- CI/CD pipelines, Docker, Kubernetes (OKE)

EDUCATION

B.S. in Software Engineering, International Islamic University, Islamabad, Pakistan | 2018

| SKILLS              |                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------|
| Front-End           | React.js · Next.js · Redux Toolkit · React Native · Angular · D3.js · Tailwind CSS                                           |
| Back-End            | NestJS · Node.js · Express.js · .NET Core · GraphQL · REST APIs · Microservices                                              |
| Messaging & Caching | RabbitMQ · Redis · Elasticsearch · WebSockets · Event-Driven Architecture                                                    |
| Databases           | Oracle (ADB, PL/SQL) · SQL Server · PostgreSQL · MongoDB · Stored Procedures · Query Optimisation · Indexing                 |
| Cloud & DevOps      | Oracle OCI · AWS (S3, EC2, Lambda) · Microsoft Azure · Docker · CI/CD · GitHub Actions                                       |
| GIS & Maps          | GIS Web Apps · Geospatial Visualisation · Real-Time Data Mapping · Geolocation APIs                                          |
| No-Code / CMS       | WordPress · Webflow · Framer · Wix · WooCommerce                                                                             |
| Govt & Defence      | Government Analytics Platforms · Aircraft Configuration Management · GIS Situational Awareness · Defence Procurement Systems |
| Languages           | TypeScript (Advanced) · JavaScript (Advanced) · SQL (Advanced) · C# (Intermediate–Advanced) · HTML5 / CSS3                   |

| LANGUAGES                                    |                 |
|----------------------------------------------|-----------------|
| ○ English (Professional Working Proficiency) | ○ Urdu (Native) |

| COURSES                                                          |  |
|------------------------------------------------------------------|--|
| Complete NestJS Developer — Enterprise Node.js Framework   Udemy |  |
| Microservices App with .NET and Next.js from Scratch   Udemy     |  |
| Amazon Web Services (AWS) — Zero to Hero   Udemy                 |  |
| Next.js Crash Course   Udemy                                     |  |
| React Crash Course: From Zero to Hero   Udemy                    |  |
| GraphQL   Pakistan Air Force Training, Pakistan                  |  |

| INTERNSHIP                              |  |
|-----------------------------------------|--|
| ReactNative Intern   Blue East   Lahore |  |