

# Mohammad Saim Saeed

Full-Stack Software Engineer

Air University, Islamabad

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## PROFESSIONAL SUMMARY

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Full-Stack Software Engineer with experience building scalable web applications and backend systems using Node.js, Express.js, MongoDB, React.js, and Next.js. Skilled in RESTful API development, authentication systems, database integration, cloud deployment, and responsive frontend applications within the MERN stack ecosystem. Experienced in developing real-time applications and integrating third-party APIs through academic and personal software engineering projects.

## TECHNICAL SKILLS

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**Programming Languages:** JavaScript (ES6+), TypeScript, Python, C++ Programming, SQL

**Frontend Development:** React.js, Next.js, HTML5, CSS3, Tailwind CSS

**Backend Development:** Node.js, Express.js Framework, RESTful API Development, JWT Authentication, Socket.io, API Integration

**Databases:** MongoDB, MongoDB Atlas, Firebase, Azure SQL Server

**Cloud & Deployment:** Vercel, Render, Docker, CI/CD, Git, GitHub

**Tools & Testing:** Postman, Cloudinary, Auth0, Jest

**Core Concepts:** Full-Stack Development, Database Design, Authentication Systems, Real-Time Applications, Scalable Web Architecture

## EXPERIENCE

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### Full-Stack Software Engineering Projects

2022 – Present

Personal and Academic Projects

Islamabad, Pakistan

- Developed and deployed scalable full-stack web applications using MERN stack and Next.js
- Built backend RESTful APIs, authentication systems, and real-time communication applications
- Implemented cloud deployment workflows using Vercel, Render, Firebase, and MongoDB Atlas
- Applied software engineering best practices including testing, version control, and responsive design

## SOFTWARE ENGINEERING PROJECTS

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**AICattleCare – AI-Powered IoT Livestock Monitoring Platform** | Next.js, Node.js, Azure SQL Server, IoT | [LIVE URL](#)

- Engineered scalable full-stack IoT application for real-time livestock health monitoring
- Designed real-time sensor data ingestion pipelines and analytics dashboards
- Implemented AI-powered disease prediction system generating automated health alerts
- Designed secure role-based authentication and multi-tenant subscription management
- Optimized Azure SQL relational database queries and real-time sensor data processing workflows

**ChatSphere – Real-Time Messaging Application** | Next.js, TypeScript, Socket.io, MongoDB | [LIVE URL](#)

- Developed scalable real-time messaging application using Socket.io and MongoDB
- Integrated JWT authentication, Auth0 integration, and OTP email verification
- Built direct messaging and group chat functionality with persistent data storage
- Integrated RESTful APIs, Cloudinary uploads, and responsive Tailwind CSS interfaces

**Hospital Management System** | MERN Stack, Express.js, MongoDB, JWT Authentication | [LIVE URL](#)

- Designed healthcare management application with appointment scheduling and patient workflows
- Developed responsive React.js frontend with doctor profiles and notifications
- Architected backend RESTful APIs using Express.js, MongoDB, and JWT authentication
- Deployed production-ready MERN stack application using Vercel and Render

**SmartSpend-AI – AI Finance Tracking Application** | Next.js, Firebase, Gemini API, Tailwind CSS | [LIVE URL](#)

- Engineered AI-powered finance tracking application using Next.js and Firebase
- Integrated Google Gemini API for intelligent receipt parsing and categorization
- Built financial analytics dashboards with Recharts visualizations
- Implemented Jest testing, responsive UI components, and deployment workflows

## EDUCATION

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**Air University**

Bachelor of Computer Science — CGPA: 3.11/4.00

Islamabad, Pakistan

Sep 2022 – Jun 2026

- Recognized as High Achiever, Faculty of Computing and Artificial Intelligence (FCAI) – Spring 2024

## CERTIFICATIONS

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**Frontend Development using React** – Board Infinity / Coursera | [Link](#)

**Python for Data Science and AI** – IBM / Coursera | [Link](#)

**Google Data Analytics Certification** – Google / Coursera | [Link](#)