

MUHAMMAD ZEESHAN HAIDER

Software Engineer | Full Stack Developer

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SUMMARY

Fresh Computer Science graduate and Software Engineer with production experience building scalable full-stack applications across Agritech, Enterprise SaaS, Healthcare, and real-time communication domains. Proficient in Next.js, React, Node.js, NestJS, FastAPI, TypeScript, PostgreSQL, MongoDB, Redis, Docker, and modern backend architectures, with hands-on experience in GIS, Remote Sensing, IoT data integration, AI-powered systems, and Decision Support Systems. Passionate about building production-ready software that solves complex real-world engineering challenges through scalable architecture, clean system design, and intelligent automation.

TECHNICAL SKILLS

Frontend: React.js, Next.js, Redux Toolkit, Tailwind, JavaScript (ES6+), TypeScript

Backend: Node.js, NestJS, Python, FastAPI, Express.js, REST APIs, JWT, Socket.IO, MongoDB, SQL

Tools & Deployment: Git, Docker, CI/CD, Postman, VS Code

PROFESSIONAL EXPERIENCE

Software Engineer — Earth Scan Systems

Jan 2026 – Present

- Designed and developed production-grade Agritech applications using Next.js, NestJS, TypeScript, PostgreSQL, and Redis.
- Engineered scalable REST APIs supporting crop advisory, sensor monitoring, geospatial visualization, and farm management workflows.
- Integrated IoT sensor pipelines, enabling ingestion and processing of soil, weather, and environmental telemetry.
- Built GIS-enabled features utilizing satellite imagery and Remote Sensing datasets for agricultural monitoring and analytics.
- Contributed to Decision Support Systems (DSS) by implementing backend business logic, crop intelligence workflows, and automated advisory pipelines.
- Optimized backend modules through database query improvements, modular architecture, and API performance enhancements.
- Collaborated with cross-functional teams to deploy and maintain production systems used by enterprise agricultural clients.

MERN Stack Developer — NexMatrix (UK-based, Remote)

Jan 2026 – June 2026

- Developed production-ready enterprise SaaS modules using React.js, Next.js, Node.js, Express.js, MongoDB, and TypeScript.
- Designed scalable REST APIs supporting business workflows, authentication, notifications, and user management.
- Refactored backend services and middleware, improving maintainability and reducing technical debt.
- Collaborated within an Agile development team to deliver production features and resolve deployment issues.
- Participated in debugging, performance optimization, and production support across multiple application modules.
- Implemented role-based access control (RBAC), input validation, and secure API practices to strengthen application security and ensure reliable backend operations.
- Integrated third-party services and optimized database queries, improving application performance, scalability, and overall user experience.

Backend Developer (Node.js) — Freelancing

Feb 2025 – Present

- Designed scalable backend architectures using Node.js, Express.js, TypeScript, SQL, and MongoDB.
- Integrated AWS S3 and third-party APIs for secure document management and cloud storage.
- Developed authentication, user management, profile, notification, and community modules.
- Containerized backend services using Docker to simplify deployments and improve development consistency.
- Optimized SQL queries and backend logic to improve application responsiveness and maintainability.

PROJECT EXPERIENCE

- Terminal Portfolio CLI — Interactive Command-Line Portfolio Explorer

Node.js, TypeScript, Commander.js, axios, Vitest, Boxen

- Engineered a production-ready interactive CLI portfolio using **Node.js** and **TypeScript**, enabling developers to explore projects, professional experience, skills, and career timelines through an intuitive terminal interface.
 - Designed a modular, maintainable architecture with **Commander.js**, integrating live **GitHub API** data, intelligent offline caching, and cross-platform compatibility for a seamless zero-configuration experience.
 - Implemented robust API communication, interactive command flows, and comprehensive testing with **Vitest**, ensuring reliable performance, maintainability, and consistent user experience across environments.

Live Link
- TAAS Grid — Enterprise SaaS Platform

Next.js, Node.js, Express.js, PostgreSQL, Cloudinary, Zoom API, Nodemailer

- Contributed to the development of a production-grade **Talent-as-a-Service (TaaS)** platform, implementing and enhancing multiple core modules across the full-stack application.
 - Developed secure backend services and scalable REST APIs using **Node.js**, **Express.js**, and **PostgreSQL**, supporting business workflows, user management, cloud media handling, and third-party integrations.
 - Integrated **Cloudinary**, **Zoom API**, and **Nodemailer** to enable automated media management, virtual meeting scheduling, and email notification workflows, improving operational efficiency and user experience.

Live Link
- Chatly — Serverless Real Time Messaging Platform

Next.js, Firebase, Firebase Cloud Messaging, Tailwind CSS, Cloudinary, Service Workers

- Engineered a production-ready serverless messaging platform using **Next.js** and **Firebase**, enabling real-time one-to-one and group communication with live data synchronization across devices.
 - Designed a scalable, event-driven architecture leveraging **Firebase Firestore**, secure authentication, and **Firebase Cloud Messaging (FCM)** to deliver instant messaging, push notifications, and reliable message delivery.
 - Implemented hierarchical group management, responsive user interfaces, and service worker support to provide a fast, seamless, and cross-platform communication experience.

Live Link
- Kasana Watches — Full Stack E-Commerce Platform

Next.js, Tailwind, Node.js, Framer Motion, JWT, Cloudinary, Firebase, Nodemailer

- Engineered a full-stack luxury watch marketplace using **Next.js** and **MongoDB**, delivering secure customer authentication, product catalog management, order processing, and appointment booking workflows.
 - Designed scalable backend services and an administrative dashboard for managing products, customer orders, media assets, and business operations through a centralized interface.
 - Integrated **Cloudinary** for cloud-based media management and **Nodemailer** for automated transactional emails, while building a responsive user experience with **Tailwind CSS** and **Framer Motion**.

Live Link

EDUCATION

Bachelor's in Computer Science — PMAS Arid University, Rawalpindi	Oct 2022 – May 2026
F.Sc. (Pre-Engineering) — Fazaia Inter College, Rawalpindi	Apr 2020 – Sept 2022