Muhammad Sair

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OBJECTIVE

With over one years of experience in software development, I specialize in building scalable, full-stack web applications using technologies like React.js, Next.js, and the MERN stack. My work spans microfrontend architectures, accessible component-driven design systems, and automation testing. Alongside my frontend focus, I develop deep learning solutions for satellite imagery analysis and apply geospatial analytics in real-world contexts. Currently exploring the intersection of AI and web development, I'm eager to contribute to innovative software solutions that push both fields forward.

EDUCATION

Bachelor of Computer Science

2021 - 2025

COMSATS University Islamabad, (Lahore Campus)

Relevant Coursework: JavaScript Course by Jonas Schmedtmann, Machine Learning Specialization by Andrew Ng

TECHNICAL SKILLS

Languages: JavaScript, Typescript, Python, Java, C, SQL · **Frameworks:** React.is, Next.is, Node.js, TensorFlow, Keras

Tools: Git, GitHub, Strapi CMS, PostgreSQL, MongoDB, Google Earth Engine, Material UI, Tailwind

CSS

PROFESSIONAL EXPERIENCE

Frontend Developer

Sep 2024 - Dec 2024

TKTurners

- Developed two full-stack applications using **Next.js** and **Strapi CMS**: an Arabic Learning Management System (Muddersac) and a rental platform (SparkHost)
- Implemented responsive UI components using Material UI and CSS, ensuring cross-browser compatibility
- Integrated RESTful APIs with a Strapi backend and PostgreSQL database
- Implemented internationalization (i18n) with RTL support for Arabic content
- Converted Figma designs into pixel-perfect, responsive web interfaces

ACADEMIC PROJECTS

TerraMark – Field Boundary Identification via Satellite Imagery

Final Year Project

- Developing a **geospatial intelligence system** to resolve **agricultural field boundary disputes** in Pakistan using **satellite imagery analysis**
- Training convolutional neural networks (ResNet50, ResNet101, SEResNet50V2) for semantic segmentation of agricultural parcels
- \bullet Utilizing EuroCrops dataset, Google Earth Engine, and OpenEO platform for data preprocessing and analysis
- Evaluating model performance using Jaccard Coefficient for spatial accuracy assessment
- Processing high-resolution satellite imagery for automated field delineation

NutriQuest – Nutrition Tracking Mobile Application

Mobile Development Course

- Built a **Flutter**-based mobile application for **daily nutrition tracking** and **calorie management** using **Dart**
- ullet Implemented food database integration via RESTful APIs with automatic calorie calculation for added foods
- Designed a user-friendly interface using Flutter widgets, including ListView, Chart components, and Forms for food logging
- Enabled real-time tracking of nutritional data and personalized dietary goals using state management with Provider
- Applied responsive UI principles for consistent experience across Android and iOS devices

FREELANCE PROJECTS

Laundry Orbit – Laundry Service Web Application

Apr 2025 - Jul 2025

- ullet Developed a **full-stack** laundry service platform using **React.js**, **Node.js**, **Express**, and **MongoDB** with **MVC** architecture
- Implemented secure **JWT-based authentication** and **authorization** across client and admin dash-boards
- \bullet Designed dynamic service ordering workflows with Material UI (MUI) for a responsive and modern UI/UX
- Ensured structured and scalable codebase with **route-model-controller (RMC)** architecture for backend APIs

Swift Auto Transport - Nationwide Vehicle Shipping Website

Jul 2025

- Delivered a complete **production-ready website** in just **7 days**, from design to deployment, for a U.S.-based auto transport brokerage
- Built with Next.js for server-side rendering (SSR) and routing, CSS and Material UI for responsive design, and Three.js for interactive visual effects
- $\bullet \ \text{Integrated} \ \textbf{Resend} \ \text{for seamless email communication and} \ \textbf{SEO-ready} \ \textbf{content} \ \text{to boost visibility}$
- Features include: instant quotes, enclosed/open transport options, insurance details, state-specific service pages, and testimonials
- Demonstrated strong **time management**, working under pressure to restore and modernize the client's web presence rapidly