Subhan Rangila

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EDUCATION

FAST National University of Computer and Emerging Sciences — Karachi, Pakistan
Bachelor of Science in Computer Science, CGPA 3.59/4 — August 2022 - June 2026

TECHNICAL SKILLS

Languages: JavaScript, Python, C++, SQL, Java, HTML, CSS
Frameworks: Next.js, React.js, Express.js, Django
Databases: PostgreSQL, MongoDB, SQLite
Developer Tools: Git, GitHub, Postman, VS Code, Docker, PM3
Libraries/UI: Tailwind CSS, Bootstrap
Other Technologies: Redis, Event Emitter

PROJECTS

Bazaar: Inventory System | *Next.js, PostgreSQL, SQLite, Docker, Redis* — Project Link
- Crafted a backend service for inventory tracking and product stock movements, scalable from a single store to multiple stores, while ensuring system scalability and data integrity across high-volume transactions.
- Architected RESTful APIs for inventory actions, transitioning from SQLite to PostgreSQL for enhanced performance and scalability.
- Deployed RBAC and basic authentication to safeguard sensitive data, and configured Docker for read/write separation, improving data handling.
- Used Redis for caching and API rate-limiting, while achieving horizontal scalability using PM2, ensuring high availability for large-scale operations.

Enviro | *Next.js, Node.js, PostgreSQL, Socket.io, Cloudinary* — Project Link
- Developed a comprehensive full-stack application with Next.js and React.js to facilitate waste pickup scheduling, recycling tracking, and optimized waste management workflows.
- Created a reporting feature allowing users to flag missed trash pickups, ensuring waste management companies are instantly notified and can resolve issues efficiently.
- Incorporated an AI image classifier using the Gemini Flash API model to filter images based on cleanliness and added sentiment analysis to flag urgent user reports, ensuring waste issues are addressed promptly.
- Implemented an interactive map with Leaflet.js, enabling users to locate 150+ recycling centers and support responsible waste disposal.
- Designed a reward system that tracks user recycling activities, utilizing PostgreSQL for backend data storage and encouraging eco-friendly behavior through incentives.

Khareed o Farokht | *Node.js, React.js, Express.js, MongoDB, Socket.io, Cloudinary* — Project Link
- Built an innovative peer-to-peer transaction platform using React.js and Node.js, user experience, reducing transaction errors, and improving operational efficiency.
- Executed ad posting features that allow users to create, update, and delete ads across categories like vehicles, services, and mobile phones, providing a seamless way to manage and optimize listings, enhancing user efficiency and engagement.
- Introduced an advanced ad filtering system, allowing users to search by location and category, improving search efficiency and increasing user retention.
- Engineered a real-time chat system using Socket.io for seamless buyer-seller communication, facilitating instant messaging, enhancing trust, user interaction, and the overall customer experience, leading to a notable rise in successful transactions.

Blogify | *EJS, Node.js, MongoDB, Socket.io* — Project Link
- Engineered a blogging platform using Node.js and EJS with secure authentication, enabling users to manage posts, comments, and real-time notifications.
- Implemented a multilingual blog feature with Google Translate API, supporting 10+ languages to enhance engagement and expand international reach.
- Built an advanced search and filtering system, enabling users to efficiently find 100+ blog posts by keywords, views, likes, and recency, enhancing user experience and engagement.
- Developed a follow system to track favorite bloggers, receive real-time notifications on new posts, and foster an interactive experience, boosting user retention and engagement.
- Executed comment management features, enabling users to add, edit, and delete comments on blog posts, fostering an interactive community and driving user engagement.

EXPERIENCE

Full-Stack Developer Intern — June 2025 - August 2025
Techmile Solutions — *Karachi, Pakistan*
- Built and maintained web apps using React, Node.js, Supabase, and PostgreSQL; also created a mobile app in React Native and explored Angular for modules.
- Collaborated with a team to design, implement, and test features for web and mobile, ensuring a user-friendly experience.