IMRAN HUSSAIN BARBHUIYA

Full Stack Developer Building the Future of Web and Mobile
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[Linkedin](#) | [Github](#) | [Website](#) | India

WORK EXPERIENCE

Mobile App Developer
Nov 2023 – Present

TEC Spartans [Website](#)

- Developed the TEC Spartans mobile app to streamline campaign and event participation.
- Implemented features such as push notifications, user authentication, and real-time updates.
- Used Expo Updates to enable over-the-air updates, ensuring users always access the latest version.
- Integrated real-time chat functionality using Pusher, allowing users to communicate with each other and the organization.
- Built a custom CI/CD pipeline using GitHub Actions and a self-hosted Mac mini, enabling builds triggered by push, PR, comment, and workflow_dispatch. Automated publishing to the iOS App Store or S3 for local download, reducing cloud costs while maintaining full build automation.
- Developed using Expo React Native and NestJS with TypeScript.
- Additionally contributed to backend system development.

Founding Engineer
May 2022 – Present

Sofi (Part Time) [Website](#)

- Led full web development for an anime-themed game application serving over **30,000 daily active users**, with a total reach of **600,000 users** across 15+ countries.
- Utilized a diverse tech stack to optimize Sofi's performance and enhance the user experience: As the main runtime, Node.js manages the workload, orchestrating over 120 shards to distribute the load effectively.
- Leveraged Rust for high-performance image generation, utilizing multi-core processing and uses IPC for inter-process communication with TypeScript.
- Created a **Photoshop-style album editor** with advanced features like drag-and-drop, multi-selection, rotation, and rich customization tools.
- Implemented payment systems (link) supporting one-time gem purchases and recurring patron subscriptions via PayPal and Lemon Squeezy.

Full Stack Developer
Jan 2025 – June 2025

OBScoreboard [Website](#)

- Developed a platform for live game overlays and remote control tools for OBS streamers.
- Used Firebase Datastore and Live DB to support real-time overlay draft saving, multi-device editing, and synchronized live updates.
- Leveraged SVG with React to dynamically display and update overlay content.
- Built using NextJS, TypeScript, and Firebase.
- Enabled real-time features and remote control functionality.

Backend Developer
2023

Flatshare (Inactive) [Website](#)

- Worked as backend developer for Flatshare, a mobile app connecting users to potential flatmates in India.
- Designed and built backend systems using Express.js.
- Supported the successful launch of the Android app on the Play Store.
- Created Metabase dashboards to visualize backend metrics and user activity using custom mongodb aggregations.

Co-founder
Oct 2021 – Feb 2024

R.O.T.I. [Link](#)

- Built and scaled a Discord moderation bot used in over 50,000 servers.
- Led product, engineering, and community efforts as co-founder.
- Developed in TypeScript.

Full Stack Developer
2025

Adwings CRM [Link](#)

- Developed a website for real-time leads management with browser push notifications.
- Implemented a real-time chat interface for seamless communication.

PROJECTS

Ran Programming Language | *Go* [Link](#)
A programming language built from scratch in Go, inspired by compiler and interpreter design books.

Tagscript | *Typescript* [Link](#)
A dynamic string interpreter allowing logic and customization in content. Ported from Python to TypeScript.

esbuild-plugins-node-modules-polyfill | *Typescript* [Link](#)
An esbuild plugin for polyfilling Node.js core modules and injecting global objects.
Used by major frameworks including Remix and Cloudflare.

typedoc-plugin-external-link | *Typescript* [Link](#)
A plugin for adding external module links in Typedoc documentation.

css-tailwind-codegen | *Typescript* [Link](#)
A Figma plugin that generates Tailwind CSS from devmode styles.

i18n-validate | *Typescript* [Link](#)
A tool that statically analyzes TypeScript codebases to validate i18n usage,
detecting invalid translation keys and incorrect or missing variable usage.

React Native Headless Mention Input | *Typescript* [Link](#)
An input component with mention support, built for TEC Spartans' chat functionality.

Other Open Source Projects [Link](#)
Additional open-source work and community contributions.

SKILLS

Languages: TypeScript, JavaScript, Rust, Python, Go, Dart
Frameworks and Libraries: React, NextJS, React Native, Expo, Tauri, NestJS, Express.js, Fastify, WebSocket, Socket.io, Pusher, Flutter
Databases: MongoDB, PostgreSQL, Redis, SQLite, MySQL
Cloud Platforms: Vercel, Hetzner, Firebase, Supabase, AWS

EXTRACURRICULAR ACTIVITIES

Teacher (Part Time) 2023 – 2025
Al Mubaswir English Academy [Website](#)

- Taught Science, Mathematics, and Computer Science to students of classes IX and X.
- Provided academic support and mentorship to guide students through their learning journey.