

IMRAN HUSSAIN BARBHUIYA

Full Stack Developer Building the Future of Web and Mobile

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[Linkedin](#) | [Github](#) | [Website](#) | India

WORK EXPERIENCE

TEC Spartans

Nov 2023 – Present

Mobile App Developer

[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 have 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.

Sofi

Oct 2021 – Present

Founding Engineer

[Website](#)

- Led full web development for an anime-themed game application serving over **30,000 daily active users** in **251,000+ servers**, with **650,000+ users** and a total reach of **27 million+ users** across 15+ countries.
- Optimized Sofi's performance using a diverse stack, improving user retention and latency. 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.

OBSScoreboard

Jan 2025 – June 2025

Full Stack Developer

[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.

R.O.T.I.

Oct 2021 – Feb 2024

Co-founder

[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.

Flatshare (Inactive)

2023

Backend Developer

[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.

Adwings CRM

Feb 2025 - Apr 2025

Full Stack Developer

[Link](#)

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

PROJECTS

Video Analyzer | *Typescript, AI SDK*

Developed an AI-powered chat tool for The Esports Club to analyze YouTube and Instagram Reels. Automatically fetches or generates video transcripts, retrieves comments, and uses RAG to answer context aware questions, helping brands verify sponsored content.

[Link](#)

Ran Programming Language | *Go*

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.