

ROZEEN HUSSAIN

Fullstack Developer

+91 60013 21383

New Delhi, India

rozeenhussain@gmail.com

github.com/12ose

linkedin.com/in/12ose

SUMMARY

Fullstack Developer with 4+ years building and scaling production systems across **React, Node.js, and Python/FastAPI**. Recently focused on **AI/LLM products** — multi-agent systems, RAG, and real-time speech pipelines — on top of a strong backend, real-time, and cloud-native foundation. Experienced leading technical planning and code reviews, reducing latency and infrastructure cost, and shipping reliable systems used at scale.

WORK EXPERIENCE

Lead Backend (AI Engineer)

NavGurukul (August 2025 – Present)

- Built and shipped the **AI Interviewer**, an LLM voice-interview platform, as part of NavGurukul's **AI Learning Ecosystem** — a 2026 **S&P Global Foundation StepForward Challenge** winner ([MIT Solve](#); \$200K grant, 1 of 6 global winners).
- Architected systems for AI-driven education platforms using **Node.js, React, TypeScript, and Python/FastAPI**.
- Migrated the AI Interviewer platform to a fully **client-side React architecture**, reducing latency by **60%** and lowering inference cost.
- Designed and **optimized GenAI pipelines** including speech recognition, OCR, vector search, LLM routing, prompt orchestration, and cost-aware inference under strict latency and budget constraints.
- Led a **Firestore → PostgreSQL migration** and built asynchronous, leveled-scoring pipelines and admin analytics over canonical interview data.
- Owned **staging and production deployments** (AWS EC2 + Amplify) and led technical planning, code reviews, and system design for the AI product team.

Senior Software Developer (Fullstack)

BoldTek India Pvt. Ltd. (April 2025 – August 2025)

- Designed scalable backend services and data pipelines for enterprise procurement and CRM platforms using **React and Node.js**.
- Automated ingestion and enrichment of government solicitations from SAM.gov and DLA, and inventory data from PartsBase and ILS using **TypeScript and Playwright**.
- Delivered a U.S. Airdrop procurement tool **end-to-end within 6 weeks** while owning CRM backend features and on-call production issues.
- Implemented WhatsApp, Facebook Business, and email integrations for campaign management and real-time messaging workflows for the CRM tool.

Software Developer I

Xopuntech India Pvt. Ltd. (July 2022 – April 2025)

- Built and scaled fullstack web and mobile applications across ed-tech, agri-tech, and consumer domains using modern JS stacks.
- Built end-to-end **React frontends and Node.js backend services**, enabling shared UI components, API layers, and features **reused across multiple products**.
- Integrated third-party services — payments, maps, push notifications, and analytics — and shipped responsive, mobile-first interfaces to production.
- Owned features from design to deployment, including monitoring, real-time chat, and post-release support.

Fullstack Developer

DealAmaze India Pvt. Ltd. (July 2021 – July 2022)

- Developed fullstack systems for AI-enabled security solutions and large-scale e-commerce platforms using **React.js and Node.js**.
- Built RESTful APIs, admin tooling, and order/inventory workflows backed by relational and document databases.
- Delivered features end-to-end with production readiness, monitoring, and post-deployment support.

SKILLS

Languages: JavaScript, TypeScript, Python, SQL, Bash

AI & LLMs: LLM Orchestration, Multi-Agent Systems, RAG, LangGraph, LangChain, DSPy, Prompt Engineering, Speech-to-Text/TTS, OCR, Vector Search

Backend & APIs: Node.js, Express, FastAPI, REST, GraphQL, WebSockets, SSE, OAuth2, JWT, gRPC

Frontend: React, Next.js, Angular, Redux, Tailwind CSS, HTML5, CSS3

Data & Storage: PostgreSQL, MongoDB, MySQL, Redis, Snowflake, BigQuery, Vector DBs

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda), GCP, Docker, Kubernetes, CI/CD, Linux

Streaming & Tooling: Kafka, Celery, Event-Driven Systems, Git, Postman, Swagger/OpenAPI

Practices & Testing: System Design, Agile/Scrum, Code Review, TDD, Jest, PyTest, Playwright

PROJECTS

2026 Terra — Conversational Analytics Platform

[terrabase.ai](#)

- Engineered backend systems for a **multi-agent LLM analytics platform** that turns natural-language questions into governed SQL, charts, and insights — built on **LangGraph + LangChain** with real-time **SSE streaming** through nested ReAct agents.
- Built a generic **runtime-connector execution engine** unifying **8 data sources** (Snowflake, Salesforce, Shopify, Stripe, HubSpot, ...) with opaque-cursor pagination, fail-fast multi-op runs, and **contract-hash tamper protection**.
- Designed the **Control Center semantic-quality backend**: a **freshness-coverage engine** grading every metric/entity as current/review/bl plus **schema-drift re-validation** that auto-promotes non-breaking connector changes.

- Implemented **query & chart version control** in PostgreSQL (parent-chain DAG for iterative refinement) and **replayable transform functions** that regenerate dashboards on fresh data.
- Hardened **SQL safety & cost**: structured-output generation guarded by read-only, SQLGlot-parse, and AST minimal-change checks across **8 dialects**; two-tier (Redis → Postgres) schema caching and per-org token/credit metering.
- Ran background jobs — schema sync, document ingestion, and knowledge extraction — on **Celery + Redis**, with a WebSocket channel pushing live schema-cache updates.
- Built **embeddable analytics artifacts** (React/TypeScript): iframe-embeddable dashboards, a reusable metric library, Vega-Lite charts, and PostHog analytics.
- Tech Stack: Python, FastAPI, LangGraph, LangChain, Claude Sonnet 4, GPT-4o, Snowflake/BigQuery (Ibis), Redis, Celery, PostgreSQL, React.

2025

AI Interviewer

https://zoe.zuvy.org/

- Built an AI platform that conducts **real-time voice interviews** (STT/TTS + voice-activity detection), reads candidate projects via **OCR**, and evaluates answers with an **LLM**.
- Implemented a **client-side speech-to-speech pipeline** (Web Speech API) running at **\$0.12/hour**, cutting end-to-end latency to **sub-3s** via client-side orchestration and edge API calls.
- Engineered a **JD-to-rubric engine**: turns a job description into a **CEFR** skill rubric, then adapts questions to probe each required skill.
- Built an **asynchronous scoring pipeline** that grades each interview into a leveled scorecard, backed by a Firestore → PostgreSQL migration.
- Added **proctoring** (tab-switch and copy-paste detection), camera controls, and admin dashboards with server-side pagination for a hiring flow.
- Full-Stack: React, FastAPI, PostgreSQL, Cloudflare Worker, Hugging Face, Tesseract.

2025

Procurement Intelligence Platform

usairdrop.info

- Automated ingestion and enrichment of U.S. government procurement data (SAM.gov, DLA) for U.S. Airdrop, LLC.
- Built scalable **data pipelines** for solicitation analysis and cross-source inventory intelligence (PartsBase, ILS).
- Implemented scheduled scrapers, deduplication, and normalization using **TypeScript and Playwright**, with dashboards for tracking and search.
- Delivered the tool end-to-end with production monitoring and reliability hardening for on-call operation.

2024–2025

Stridecal Web App

promova.com

- Developed an **AI-assisted language-learning** web app focused on conversational fluency, vocabulary mastery, and adaptive lesson flow.
- Built responsive React interfaces and API integrations for lesson delivery, spaced-repetition practice, and progress tracking.
- Collaborated with design and content teams to ship features rapidly across web platforms.

2024

Kheti Bati Web & Mobile Platform

khetibati.com

- Developed a platform connecting farmers with mentors, live sessions, equipment rentals, and market insights.
- Implemented **payments, digital agreements, and real-time chat and notifications** across web and mobile.
- Built the backend APIs and admin tooling powering listings, bookings, and content management.

2023–2024

GarageWa

garagewa.com

- Built a consumer **PWA** with bookings, payments, maps, and push notifications.
- Developed internal dashboards for order management, invoicing, and reporting.
- Integrated payment gateways and location services, and optimized the app for offline-friendly, mobile-first use.

2022

DealAmaze E-Commerce Platform

dealamaze.com

- Developed a **multi-vendor e-commerce** platform with payments, admin tooling, and order workflows.
- Built vendor onboarding, catalog management, and order-tracking features across the stack.

EDUCATION

8/2018 - 7/2022	B.Tech — Computer Science and Engineering Barak Valley Engineering College	7.6 CGPA
4/2017 - 3/2018	AISSCE Kendriya Vidyalaya, Khanapara	85%
4/2015 - 3/2016	AISSE Kendriya Vidyalaya, Khanapara	9.0 CGPA