

Pranav Sandip Hole

Full-Stack Engineer | BlockChain | JavaScript | AI

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EXPERIENCE

Tata Consultancy Services (TCS) | Backend Developer

Aug 2024 - PRESENT

(TCS) — A global IT services company delivering scalable enterprise solutions in BFSI and automation domains.

- Migrated a legacy VB.NET + PL/SQL system to **Node.js, Express, React, and PostgreSQL**, improving maintainability and development speed.
- Re-architected database schema + ported stored procedures to PostgreSQL, improving query efficiency by **~25%**.
- Rebuilt UI with React + Tailwind, reducing page **load time by ~35%** and improving user experience.
- Delivered modular **REST APIs** with **JWT-based authentication** and role management.
- Tech-stack - **JavaScript(React.js, Node.js, TypeScript), Tailwind, Python(Fast API), Azure(VM, Blob Storage), PostgreSQL, Redis, Docker, MongoDB**

Projects

Muzzy — Music Streaming Platform | [GitHub](#) | [Live](#)

Enables real-time collaborative music streaming with synchronized playback across users.

- Built real-time collaborative music streaming with synchronized playback.
- Implemented **Redis caching + WebSockets + HLS**, reducing latency by **~68%**.
- Designed scalable backend + optimized data flows for smoother playback.

Stack- **AWS EKS, Terraform, Node.js, Next.js, PostgreSQL, Redis, Docker**

Zapier-Clone — Automation Platform| [GitHub](#) | [Live](#)

Automates cross-app workflows using an event-driven microservices architecture.

- Event-driven microservices automation platform.
- Achieved **74% faster workflow execution** via Kafka-based architecture.
- Implemented monorepo design; deployed via Docker.

Stack: **Next.js, Node.js, TS, Kafka, PostgreSQL, Docker**

SKILLS

Languages: JavaScript, Python, C++, Java

Front-end: React.js, Redux, SCSS, Tailwind, Next.js, React Native

Cloud: AWS (EC2, VPC, Subnets, SGs, EKS, ECS, S3, Route53, CloudWatch), Azure

CI/CD: Jenkins, GitHub Actions

Back-end: Node.js, Express.js, Fast API

Databases: MongoDB, MySQL, Firebase, PostgreSQL, Redis, ElasticSearch

AI: GenAI, Langchain, OpenAI, Streamlit, Ollama, Google ADK, CrewAI

Web3 - Truffle, Hardhat, IPFS, Ganache, NFT

UX/UI Design: Figma, Framer

Others: Web Scraping, Content Creation, Git, Agile, Debugging, Testing, Coding, Data Structures, Algorithms, Automation

EDUCATION

Government College of Engineering Amravati

July 2020 - June 2024

OTHER EXPERIENCES

- **Freelance Full-Stack Engineer (2022–24):** Delivered 5+ SaaS & web apps end-to-end.
- **Co-Lead, GDSC GCOEA:** Mentored developers; led hackathons & workshops.
- **Convener, Prajwalan 2023:** Managed technical fest of 10,000+ participants.
- **Built 5+ DApps using Solidity & Polygon.**