

Dhvanit Monpara

Backend-focused Full-Stack Engineer building scalable systems

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Experience

TechySquad

Ahmedabad, India

Full Stack Developer Intern

Aug 2025 – Jan 2026

Tech Stack: Node.js, TypeScript, PostgreSQL, WebSockets, LiveKit, Express.js, Docker

- Engineered [Nestly](#), a full-stack real-time communication platform (Discord-like) supporting messaging, channels, presence, typing indicators, and media calls.
- Built low-latency communication using **WebSockets + LiveKit**, enabling real-time messaging, voice/video calls, and screen sharing with sub-200ms delivery.
- Designed **JWT auth + RBAC for multi-tenant systems**, supporting secure multi-tenant communities with role isolation.
- Containerized and deployed production applications using **Docker**, ensuring reproducible builds and consistent environments across development and deployment.

Skills

Backend: Node.js (Express.js), TypeScript, PostgreSQL / MySQL, Redis

Frontend: React, Next.js, WebRTC, ShadcnUI, Tailwind

Systems: WebSockets, Caching, Auth (JWT, RBAC), Modular architecture

Infrastructure: Docker, Git, AWS (EC2), GCP Cloud Run, Linux

Education

Silver Oak University

Ahmedabad, Gujarat, India

Bachelor of Computer Applications (GPA 7.98)

2023 – 2026

Projects

Flick - Anonymous Campus Community Platform [Live](#) | [Github](#)

Node.js, PostgreSQL, Redis, Docker, WebSockets, NextJS, ShadcnUI

- Engineered an anonymous community platform with **institutional email verification**, balancing user anonymity with abuse accountability
- Built a hybrid moderation pipeline combining **BERT-based toxicity detection** (Detoxify) and **Aho-Corasick pattern matching** (wildcard support), with rate limiting and structured audit logs to control spam and harmful content
- **Reduced database load by ~60%** by designing a **multi-layer caching strategy (in-memory + Redis)** and optimizing PostgreSQL queries for high-traffic endpoints
- Designed a **modular, domain-driven backend architecture** (auth, posts, comments, votes, moderation) with transactional APIs for data consistency.
- Deployed services on **GCP Cloud Run** with containerized workloads for scalable, serverless execution.

Initex CLI (300+ Weekly Downloads) [Live website](#)

Node.js, @clack/prompts, consola, handlebars, tinyglobby, Minimist

- Built an interactive CLI tool to scaffold **opinionated production-ready Express.js backends** with configurable setup (TypeScript/JavaScript, database selection, Socket.IO integration).
- Designed a **template-driven code generation system** using Handlebars and file globbing to dynamically generate routes, modules, configs, and standardized project structure.
- Enforced scalable backend architecture with **layered design (Controller/Service/Repository) and dependency injection patterns**.
- Published on npm with **300+ weekly downloads**, enabling developers to bootstrap structured backend services via npx initex.

Achievements

1st Prize – BrahmaCode, SKIPS University (2025) [Details](#) | [GitHub](#): Built an AI interview platform with real-time coding & expression analysis. awarded ₹50,000 cash prize.

National level Hackathon Finalist – AutonomousHacks, GDG Gandhinagar (2026) [Details](#) : Selected for the final round from 2000+ participants nationwide. Built a document classifier and discrepancy detection system.