

# Nirav Maheta

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## Education

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### Adani University

July 2023 – July 2027

B.Tech. in Computer Science and Engineering

- CGPA: 7.73/10
- **Coursework:** Database Management Systems (DBMS), Operating Systems, Data Structures and Algorithms, Object-Oriented Programming (OOP), Computer Networks, Machine Learning, Distributed Computing, IoT

## Skills

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**Languages and Frameworks:** TypeScript, Python, Next.js, React, JavaScript, Java, Flask, SQL, C++, REST APIs

**Tools:** Git, GitHub, Linux, Docker, Google Cloud Platform (GCP), Azure, CI/CD, Zsh, Agile, SDLC

## Projects

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### Hive



- Built a multi-tenant headless CMS for structured content and metadata with clean, framework-agnostic REST API access.
- Redesigned system architecture for clearer schema modeling, reliable CRUD operations, and improved developer experience.
- Implemented content models, revision tracking, metadata pipelines, and technical documentation.
- **Tech:** TypeScript, React, ShadCN, TailwindCSS, Express.js, PostgreSQL, Drizzle ORM.

### Vessel



- Built an adaptive bitrate audio streaming platform with an automated pipeline for media upload, transcoding, storage, and delivery.
- Engineered a distributed media processing workflow using Azure Container Apps Jobs, FFmpeg, Cloudflare R2, and Neon Postgres for scalable background transcoding.
- Implemented job orchestration, status tracking, failure handling, and automated cleanup to ensure reliable audio processing and asset management.
- **Tech:** TypeScript, ElysiaJS, FFmpeg, Azure Container Apps Jobs, Cloudflare R2, Neon Postgres.

### Platform1



- Built an anonymous community platform with topic-based boards, content discovery, voting, and moderation capabilities.
- Designed a full-stack architecture using Next.js, ElysiaJS, and Neon Postgres with secure authentication and role-based access control.
- Implemented ranking algorithms, real-time content interactions, and administrative tooling for scalable community management.
- **Tech:** TypeScript, Next.js, ElysiaJS, Neon Postgres, Drizzle ORM, Redis.

### Retaliate



- Implemented a lightweight React-like library with a Virtual DOM, Fiber reconciliation, and incremental rendering architecture.
- Added JSX support via esbuild, along with a hot-reload development server and production build pipeline.
- Built custom renderer logic, diffing algorithm, and core DOM reconciliation for frontend performance optimization.
- **Tech:** JavaScript, esbuild.

## Leadership and Achievements

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### President, Adani Student's Programming and Development Club (ASPDC)

Aug 2024 – Present

- Leading ASPDC initiatives, managing technical events, workshops, and community programs that support software engineering and developer growth across the university.
- Mentoring students on real-world software development, version control best practices, and project planning.

### Git and GitHub Workshop Instructor

Sept 2025

- Conducted a three-hour hands-on workshop teaching Git fundamentals, GitHub workflows, branching strategies, pull requests, and collaborative development.

### Web Development Bootcamp Instructor

Aug 2025

- Delivered a full-day bootcamp covering HTML, CSS, JavaScript, responsive web design, and core modern web development foundations for beginners.

### Winner, Techathon 2025

Jan 2025

- Secured first place for building Roadsafe, a real-time accident reporting and community awareness platform developed in a 24-hour hackathon under rapid prototyping constraints.