VRAJ RUPARELIYA

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EDUCATION

Sarvajanik College of Engineering and Technology 2022 - 2026

Bachelor of Technology in Information Technology (CGPA: 8.05/10.0) Surat, Gujrat, India

EXPERIENCE

Transcodezy IT Solutions Pvt. Ltd. Surat, Gujrat, India

Full-Stack Developer – Intern Feb 2026 - Jun 2026

- Developed and maintained production-ready full-stack applications using Next.js, React.js, TypeScript, Node.js, Express.js, PostgresSQL, and REST APIs, following scalable and maintainable development practices.
- Designed modular application architecture with reusable components, custom hooks, middleware, service layers, and standardized API patterns to improve code maintainability and scalability.
- Integrated third-party APIs and services, implementing robust error handling
- Improved frontend and backend performance through caching, lazy loading, code splitting, server-side rendering (SSR), static-site generation (SSG), API optimization, and database query optimization.

PROJECTS

LinkVault | Link 2026

- Designed and shipped a production-ready analytics platform of URL shortener with Next.js, and PostgreSQL, featuring Redis-cached analytics dashboards, NextAuth authentication, and a Sanity CMS-driven campaign system.
- Architected the backend with a cache-aside Redis pattern, using Server Actions for internal actions and API routes for outside access, kept things clean and easy to build on as the project grew.

Tech Stack: Next.js, Typescript, Redis, Sanity-CMS, Postgres, Prisma-ORM, Sentry, Resend-Email, NextAuth, Tailwind CSS, git

Movieboxd | Link 2026

- Developed a Letterboxd-inspired movie review and social networking web application using Node.js, Express.js, and React.js, with user authentication, profiles, reviews, watchlists, and movie diaries.
- Implemented social features including follow/unfollow functionality and personalized activity feeds to enhance user networking.

Tech Stack: Node.js, Express.js, React.js, MongoDB, JavaScript, HTML, Tailwind CSS, Git, GitHub

AI Text Detector | Link 2025

- Engineered a 3,600+ sample dataset using GPT-Neo-1.3B and the Wikipedia API, then fine-tuned DeBERTa-v3 for AI text detection, achieving 99.4% accuracy and 0.99 F1-score.
- Conducted cross-model evaluation with 99.9% confidence in detecting GPT-Neo-1.3B generated text, while identifying generalization gaps with GPT-4 that highlight the need for continuous model retraining.

Tech Stack: Python, Hugging Face Transformers, PyTorch, Natural Language Processing, NumPy

Pneumonia Detector | Link 2025

- Developed a Pneumonia Detection model using VGG16 with transfer learning on the Kaggle Chest X-Ray dataset, implementing preprocessing, data augmentation, mixed-precision training, and selective fine-tuning.

Tech Stack: Python, TensorFlow, VGG16, Deep Learning, Computer Vision

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python, C, SQL

Web Frameworks & Library: Next.js, Node.js, React.js, Express.js, Tailwind CSS, Shadcn UI, Motion.dev, Zod

AI & ML: TensorFlow, PyTorch, Scikit-learn, Hugging Face Transformers, NLP, RAG, Generative AI, Deep Learning, Pandas, NumPy

Tools & Platforms: Git, Redis, PostgresSQL, Prisma-ORM, Sanity-CMS, Sentry, Postman, MongoDB, Hugging Face Hub, Github-Actions, Vercel, Figma

WRITING

A Case Study on Legacy vs. State-of-the-Art LLM - Link