

# VRIDDHI VASHI

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## Education

### Sardar Patel Institute of Technology

August 2023 – June 2027

*Bachelor of Technology in Computer Engineering*

### Barclays

January 2025 – June 2027

*Minors in Banking Technology*

## Work Experience

### Full Stack Developer Intern

July 2025 – August 2025

*Studio Geneza Pvt. Ltd.*

*Mumbai, India*

- Developed a full-fledged company website using **NextJS**, delivering a modern and responsive user experience tailored to an architecture firm's branding and audience
- Built a secure, admin-only dashboard with complete **CRUD operations** for managing **projects and team members**, using **Prisma ORM**, **NeonDB**, and **NextAuth-based OAuth authentication** for access control
- Integrated **Cloudinary** for efficient high-resolution image uploads, optimizing content management

## Projects

### URL Shortener | *FastAPI, Redis, Streamlit*

December 2025

- Developed a URL shortener backend emphasizing **low-latency** redirects and efficient data storage.
- Implemented **Redis-based caching, rate limiting, and background click synchronization** to minimize database writes and improve system performance.
- Designed **real-time analytics and trending URL tracking** using Redis counters and sorted sets, with an admin dashboard for monitoring usage.

### StockMaster | *React, FastAPI, Supabase*

November 2025

- Built an **Inventory Management System** to digitize stock operations and replace manual/Excel workflows.
- Implemented a real-time **Dashboard** with KPIs, document tracking, and dynamic filters across warehouses and product categories.
- Developed backend logic using **FastAPI** with **Supabase** to automate stock updates for receipts, deliveries, and transfers.

### ProScript | *MERN Stack, FastAPI, TensorFlow, Gemini API*

April 2025

- Built a **Prescription Manager web app** to detect drug interactions, contraindications, and allergy conflicts.
- Integrated **Gemini API** and **EasyOCR** to analyze handwritten prescriptions and flag dosage and allergy risks in real time.
- Implemented **fuzzy search** and a **TensorFlow**-based risk assessment module for personalized treatment recommendations.

### ZeroVault | *ReactJS, Flask, MongoDB, Zero-Knowledge Proof*

October 2025

- Developed a **Zero-Knowledge Proof (ZKP)** based password manager enabling secure, passwordless authentication using the Schnorr protocol.
- Implemented **AES-256 encryption** to securely encrypt vault data, ensuring stored credentials remain confidential at all times.
- Built a modular **Flask backend** for ZKP verification and encrypted vault management, integrated with **MongoDB** for secure storage and audit logging.

## Technical Skills

**Frontend:** HTML, CSS, JavaScript, ReactJS, NextJS, Streamlit

**Backend:** NodeJS, ExpressJS, MongoDB, MySQL, PostgreSQL, Redis, FastAPI

**Languages:** Java, C, JavaScript, Python

**Developer Tools:** VS Code, IntelliJ, Git, GitHub, Jupyter, Google Colab

## Extracurricular

### Director of Digital Communication

August 2024 - May 2025

*Rotaract Club of SPIT*

*Mumbai*

### Mentor for School Children

January 2025 - June 2025

*Abhyudaya, SPJIMR*

*Mumbai*