

VRIDDHI VASHI

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Education

Sardar Patel Institute of Technology

Bachelor of Technology in Computer Engineering

August 2023 – June 2027

CGPA: 8.41/10 (till Sem 5)

Barclays

Minors in Banking Technology

January 2025 – June 2027

CGPA: 9/10 (till Sem 2)

Work Experience

Full Stack Developer Intern Demo

Studio Geneza Pvt Ltd, Mumbai

July 2025 – August 2025

- 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

Snip.ly - URL Shortener | *FastAPI, React, PostgreSQL, Redis, Docker, AWS, Jenkins*

April 2026

- Built a full-stack URL shortener using **FastAPI** and **React**, deployed on **AWS EC2** with Docker and Nginx.
- Implemented URL shortening with **Base62 encoding**, custom aliases, and expiration using **PostgreSQL (NeonDB)**.
- Designed **Redis-based system** for caching, rate limiting, click tracking, and real-time trending URLs.
- Developed analytics pipeline with **async Redis-to-DB sync** to reduce database load.
- Implemented **JWT auth and RBAC** for secure user/admin dashboards with CRUD operations.
- Automated CI/CD using **Jenkins**, including **85+ pytest tests**, Docker build/push, and EC2 deployment.

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

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

Languages: Java, C, JavaScript, Python

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

Extracurricular

Technical Lead

Forum for Aspiring Computer Engineers, SPIT

January 2026 - June 2026

Mumbai

Director of Digital Communication

Rotaract Club of SPIT

August 2024 - May 2025

Mumbai

Mentor for School Children

Abhyudaya, SPJIMR

January 2025 - June 2025

Mumbai