

Tanish Patel

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Education

Parul University, Vadodara, India

Expected Graduation: May 2027

• Bachelor of Technology (B.Tech) in Computer Science and Engineering

CGPA: 7.04

Projects

Quantify Quiz Application

([Live Demo](#)) ([GitHub](#))

Tech Stack: Python (Flask), PostgreSQL, SQLAlchemy, Flask-Login (RBAC), Async 2FA, Rate-Limiting.

- **Architected** a secure quiz platform with role-based access control (RBAC), creating distinct admin panels for content management and secure user-facing quiz experiences.
- **Engineered** a non-blocking 2FA email delivery system using a 'ThreadPoolExecutor' to handle concurrent user authentications without compromising server performance.
- **Implemented** a multi-layered security model featuring server-side rate limiting to prevent brute-force attacks, CSRF protection on all forms, and reCAPTCHA verification.
- **Designed** a robust database schema with SQLAlchemy to manage complex relationships between quizzes, questions, user attempts, and scoring, ensuring data integrity.

LinkForge Dynamic URL Shortener

([Live Demo](#)) ([GitHub](#))

Tech Stack: Python (Flask), PostgreSQL, SQLAlchemy, Docker, Gunicorn, Flask-Blueprints.

- **Designed and built** a multi-tenant URL shortener using the Application Factory Pattern and Flask Blueprints, solving link collisions with user-specific namespaces.
- **Engineered** power-user tools including bulk QR code download, CSV data export, and multi-link deletion for enhanced data management.
- **Containerized** the application using Docker, establishing a reliable CI/CD pipeline for seamless updates on a PaaS cloud (Render).

Skills

Languages: C++ , Python, SQL, JavaScript, HTML/CSS

Backend & Databases: Flask, SQLAlchemy, PostgreSQL, RESTful APIs, Gunicorn

Tools & Platforms: AWS, Git, Docker, Heroku/Render, VS Code, Linux

Certifications

IBM: Artificial Intelligence Fundamentals

([Certificate](#))

AWS: Cloud Practitioner Essentials

([Certificate](#))

AWS: Cloud Essentials Knowledge Badge

([Certificate](#))

AWS: Academy Cloud Foundations

([Certificate](#))

Smart Interviews: Smart Coder - Diamond Certificate

([Certificate](#))

Competitive Programming

- **600+** problems solved across platforms
- LeetCode: Rating **1870 (Knight)**, Solved **300+** problems. ([Profile](#))
- CodeChef: Rating **1583 (2-Star)**, Solved **200+** problems. ([Profile](#))
- Codeforces: Rating **1401 (Specialist)**, Solved **70** problems. ([Profile](#))