

Uddish Viralkumar Patel

SOFTWARE DEVELOPER & CYBERSECURITY ENTHUSIAST

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PROFILE

Software Engineer & Cybersecurity Specialist with expertise in full-stack development, distributed systems, and application security. Hands-on experience in vulnerability assessment, web security testing, REST API design, database optimization, and production deployment. Proficient in building secure, scalable applications from architecture to deployment. Strong foundation in OWASP security practices, network fundamentals, and systems engineering.

TECHNICAL SKILLS

Languages & Web - Python | JavaScript | HTML5 | CSS3 | SQL | REST API design

Backend & Data - Flask | SQLAlchemy | PostgreSQL | SQLite | schema design, indexing, query tuning, migrations

Security - Vulnerability assessment | OWASP Top 10 | XSS/SQLi detection | input validation | security headers | IDS/WAF concepts | HTTP traffic analysis

Networking - TCP/IP | DNS/WHOIS | port scanning | subdomain enumeration | HTTP/HTTPS lifecycle

Tools & DevOps - Git/GitHub | Docker | Railway | Streamlit | Linux CLI | Postman | pytest | VS Code

PROJECTS

Password Cracking & Credential Attack Suite - Python, Streamlit, pytest

Ethical password-security toolkit with a live dashboard: cracks Linux shadow (\$1/\$5/\$6\$) and Windows NTLM hashes, benchmarks real hashing throughput at runtime, and scores passwords against NIST SP 800-63B using breach-corpus and entropy analysis. 38 automated pytest tests; deployed on Streamlit Community Cloud.

SentinelShield - IDS / Web Application Firewall - Flask, PostgreSQL

Analyses HTTP traffic to detect SQL injection and XSS, with packet inspection, real-time alerting and a monitoring dashboard. Secure request logging backed by indexed PostgreSQL queries for fast event lookup.

AegisScan - Web Vulnerability Scanner - Python, Docker, REST

Modular scanner with separate DNS resolution, port scanning, API discovery and directory enumeration modules behind a REST API that handles concurrent scans with async result processing. XSS and SQLi detection modules; containerised with Docker for service isolation.

CA Management System - Full-Stack Production App - Flask, SQLAlchemy, Railway

Client-management system in live use: RESTful APIs with structured error handling, migrated SQLite -> PostgreSQL for production reliability, deployed via Docker on Railway with environment-based secrets management.

Doctor Appointment System - Full-Stack Web App - Flask, JavaScript

Appointment scheduling with role-based access control, a responsive HTML/CSS/JS frontend, and a schema tuned for scheduling queries and booking consistency; validation added to reduce authentication and input risks.

EDUCATION

B.E. Computer Science & Engineering

CGPA 7.80/10

Narnarayan Shastri Institute of Technology, GTU

Skillogic Cybersecurity Course

In progress

TRAINING & CERTIFICATIONS

Cybersecurity Internship

Unified Mentor

3 months: network security, vulnerability assessment, ethical hacking

Pre Security Path

TryHackMe

Completed - 19h of hands-on labs

Complete Web Development

Udemy

100 hours

Python Developer Training

MeYou.AITech

76h with capstone project

Professional Exposure

SkillFied Mentor