

# PRIYANSHU TIWARI

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## Summary

Computer Science undergraduate passionate about building innovative and impactful software solutions. Specializes in full-stack development, machine learning, and cybersecurity, with hands-on experience developing scalable, secure applications using Flask, Next.js, and SQL-based stacks. Proficient in C++, Python, Java, JavaScript, and modern web frameworks. Strong foundation in system design and software architecture. Currently seeking a Software Engineer role to contribute technical expertise, deliver high-quality software, and collaborate with cross-functional teams.

## Education

**VIT Bhopal University** — B.Tech in Computer Science and Engineering  
*Specialization: Cybersecurity and Digital Forensics*

**2022 – 2026**  
**CGPA: 8.36/10.0**

## Technical Skills

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

**Frameworks:** Flask, React.js, Next.js, Express.js, Node.js

**Tools:** Git, Postman, MongoDB, MySQL, SQLAlchemy, Linux, VS Code

**Domains:** Backend Engineering, Distributed Systems, REST APIs, Machine Learning, Cybersecurity

## Experience

**Mastercard — Cybersecurity Virtual Experience (Forage)**

**Aug 2025**

- Served as analyst in Mastercard's Security Awareness Team simulation
- Identified and reported phishing and security threats
- Assessed areas needing stronger training and proposed improvements

## Projects

**MalViz**

GitHub

*Malware Analysis Platform*

- Built malware analysis and visualization platform with static analysis (entropy, strings, YARA, PE parsing)
- Integrated VirusTotal, Abuse.ch, and OTX APIs for threat intelligence
- Designed roadmap for dynamic analysis via sandboxing and SOC-style reporting

**Donna Voice Assistant**

GitHub

*Python, Google Speech API*

- Developed an offline voice assistant supporting 20+ platform-specific commands using command parsing and NLP
- Integrated Wikipedia API and speech recognition modules for natural query handling

**Login Brute Forcer**

GitHub

*Python, Cybersecurity*

- Engineered a CLI tool for brute force testing over HTTP POST with real-time logging and session timeout management
- Implemented customizable headers and concurrency via thread pooling for improved efficiency

**BlogBridge Platform**

GitHub

*Flask, SQLAlchemy, MySQL, Jinja2*

- Built a role-based blogging platform with secure user authentication and admin dashboard
- Implemented session handling, input validation, and full CRUD logic for user-generated content

## Certifications

Google Cybersecurity Certificate (2025)

IBM Cloud Solutions Architect (2025)

MongoDB & Node.js Admin Track (2025)

Python 100 Days Bootcamp (2024)

## Leadership & Activities

- **Yoga Regional Representative** – Kendriya Vidyalaya

## Languages

English (Fluent), Hindi (Native)