

# Mukesh T

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## EDUCATION

**Vellore Institute Of Technology, Bhopal**

*Bachelor of Technology in Computer Science and Engineering (Cybersecurity & Digital Forensics)*

Oct 2022 – Apr 2026

CGPA: 8.54 / 10

## TECHNICAL SKILLS

**Programming:** Python, Golang, SQL

**Backend Development:** Node.js, Express, Flask, RESTful APIs, Microservices

**Databases:** PostgreSQL, MySQL, MongoDB

**DevOps:** Docker, Kubernetes, Git, GitHub Actions, CI/CD, Terraform, Ansible

**Cloud:** AWS (EC2, S3, VPC, IAM), Azure, GCP

## PROJECTS

**Lueur – Multi-Modal Wearable Safety Device**

Sep 2025 – Present

*Python, Flask, REST API, PostgreSQL, 4G LTE, GPS, IoT*

- Building REST API backend with Flask for emergency alert logging and secure evidence upload management.
- Designing database schema for storing alert metadata, user information, and event logs with data integrity.
- Developing modular Python services with hardware abstraction layer for reliable device communication.
- Implementing API endpoints for real-time GPS tracking and multi-channel alert delivery (SMS, voice).

**RxSync – Intelligent Document Processing Platform – [GitHub](#)**

Oct 2025 – Dec 2025

*Node.js, Express, AWS Textract, Google Gemini, S3, REST APIs*

- Designed and implemented a backend-driven multi-stage document processing pipeline for healthcare order forms.
- Built secure REST APIs for image ingestion, asynchronous processing, and structured XML output delivery.
- Integrated AWS Textract for layout-aware OCR and Google Gemini for context-aware field extraction and reasoning.
- Developed deterministic normalization and logic-based anchoring to reduce OCR artifacts and AI hallucinations.
- Implemented strict schema validation ensuring no empty XML tags and explicit flagging of missing or invalid fields.

**Project-ZeroTrust – Secure Military Chat Application – [GitHub](#)**

Aug 2025 – Oct 2025

*Node.js, Express, PostgreSQL, Socket.IO, JWT, REST APIs*

- Built secure backend services with RESTful APIs implementing continuous authentication and session management.
- Designed PostgreSQL database schema for users, sessions, messages, and audit logs with Sequelize ORM.
- Implemented real-time WebSocket infrastructure with Socket.IO for encrypted messaging and event-driven architecture.
- Developed custom risk engine service calculating trust scores based on device fingerprinting and geolocation anomalies.
- Integrated rate limiting, input validation with Zod, and global error handling for system security and reliability.

## CO-CURRICULAR ACTIVITIES

**Event Coordinator – Tamil Club, VIT Bhopal**

2024 – 2025

- Coordinated cultural events and workshops celebrating Tamil heritage, managing logistics and participant registration.
- Collaborated with team members to execute events smoothly, ensuring timely delivery and positive attendee experience.

**Public and Outreach Team – E-Commerce Club, VIT Bhopal**

2023 – 2024

- Managed public relations and promotional campaigns for e-commerce workshops and guest speaker sessions.
- Engaged with students across campus to increase club visibility and drive participation in technical events.

**Event Organizing Team – MUN Club, VIT Bhopal**

2022 – 2023

- Organized Model United Nations conferences, handling delegate registrations, venue setup, and schedule coordination.
- Worked with cross-functional teams to ensure seamless execution of multi-day diplomatic simulation events.

## ACHIEVEMENTS

- Finalist (Top 10/600) at Operation Trinetra for secure communication system.
- Top 25/3500+ at aOS Buildathon for RWA tokenization project.
- Top 100/5000+ in BlockDAG Hackathon.
- Guinness World Record holder (largest watercolor mosaic).