

# Mukesh T

(+91) 7598270373 | [mukesh.thiyagarajan.004@gmail.com](mailto:mukesh.thiyagarajan.004@gmail.com) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

<b>Vellore Institute Of Technology, Bhopal</b> <i>Bachelor of Technology in Computer Science and Engineering (Cybersecurity &amp; Digital Forensics)</i>	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

<b>Lueur – Multi-Modal Wearable Safety Device</b> <i>Python, Flask, REST API, PostgreSQL, 4G LTE, GPS, IoT</i>	Sep 2025 – Present
<ul style="list-style-type: none"><li>– Building REST API backend with Flask for emergency alert logging and secure evidence upload management.</li><li>– Designing database schema for storing alert metadata, user information, and event logs with data integrity.</li><li>– Developing modular Python services with hardware abstraction layer for reliable device communication.</li><li>– Implementing API endpoints for real-time GPS tracking and multi-channel alert delivery (SMS, voice).</li></ul>	
<b>RxSync – Intelligent Document Processing Platform – <a href="#">GitHub</a></b> <i>Node.js, Express, AWS Textract, Google Gemini, S3, REST APIs</i>	Oct 2025 – Dec 2025
<ul style="list-style-type: none"><li>– Designed and implemented a backend-driven multi-stage document processing pipeline for healthcare order forms.</li><li>– Built secure REST APIs for image ingestion, asynchronous processing, and structured XML output delivery.</li><li>– Integrated AWS Textract for layout-aware OCR and Google Gemini for context-aware field extraction and reasoning.</li><li>– Developed deterministic normalization and logic-based anchoring to reduce OCR artifacts and AI hallucinations.</li><li>– Implemented strict schema validation ensuring no empty XML tags and explicit flagging of missing or invalid fields.</li></ul>	
<b>Project-ZeroTrust – Secure Military Chat Application – <a href="#">GitHub</a></b> <i>Node.js, Express, PostgreSQL, Socket.IO, JWT, REST APIs</i>	Aug 2025 – Oct 2025
<ul style="list-style-type: none"><li>– Built secure backend services with RESTful APIs implementing continuous authentication and session management.</li><li>– Designed PostgreSQL database schema for users, sessions, messages, and audit logs with Sequelize ORM.</li><li>– Implemented real-time WebSocket infrastructure with Socket.IO for encrypted messaging and event-driven architecture.</li><li>– Developed custom risk engine service calculating trust scores based on device fingerprinting and geolocation anomalies.</li><li>– Integrated rate limiting, input validation with Zod, and global error handling for system security and reliability.</li></ul>	

## CO-CURRICULAR ACTIVITIES

<b>Event Coordinator – Tamil Club, VIT Bhopal</b>	2024 – 2025
<ul style="list-style-type: none"><li>– Coordinated cultural events and workshops celebrating Tamil heritage, managing logistics and participant registration.</li><li>– Collaborated with team members to execute events smoothly, ensuring timely delivery and positive attendee experience.</li></ul>	
<b>Public and Outreach Team – E-Commerce Club, VIT Bhopal</b>	2023 – 2024
<ul style="list-style-type: none"><li>– Managed public relations and promotional campaigns for e-commerce workshops and guest speaker sessions.</li><li>– Engaged with students across campus to increase club visibility and drive participation in technical events.</li></ul>	
<b>Event Organizing Team – MUN Club, VIT Bhopal</b>	2022 – 2023
<ul style="list-style-type: none"><li>– Organized Model United Nations conferences, handling delegate registrations, venue setup, and schedule coordination.</li><li>– Worked with cross-functional teams to ensure seamless execution of multi-day diplomatic simulation events.</li></ul>	

## 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).