# VISHWA KUMAR VENKATESWARAN

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Bengaluru, Karnataka, India

## SUMMARY

Engineering student specializing in AI-driven systems, cybersecurity, and scalable backend development. Proven experience building production-ready applications integrating LLMs, REST APIs, and automation workflows. Passionate about system-level understanding, Linux internals, security analysis, and creating intelligent software that solves real-world problems at scale.

## TECHNICAL SKILLS

**Languages:** Java, C, C++, Python, MATLAB, JavaScript, HTML, Kotlin, BASH
**Frameworks & Tools:** Spring Boot, REST APIs, LangChain, n8n, Git, Linux, IntelliJ IDEA, VS Code
**Platforms & Systems:** Linux (Primary OS), Windows, macOS, UTM, VirtualBox, QEMU, Raspberry Pi, Arduino
**Security & Tools:** Nmap, Burp Suite, Metasploit, Android Debugging, Penetration Testing, CTF Platforms

## EXPERIENCE

**Offensive Cyber Security Intern** | *InLighnX Global Pvt. Ltd.*                      Oct 2025 – Dec 2025

- Completed structured cybersecurity training focusing on offensive and defensive security methodologies
- Developed Python-based security utilities including PDF protection tools and authentication testing frame- works in controlled lab environments
- Gained hands-on experience with hashing algorithms (MD5, SHA), network protocols, password cracking techniques, and secure coding practices
- Performed vulnerability assessment exercises and applied penetration testing concepts in supervised scenarios

## PROJECTS

**ReDroid-AI** | *Reverse Engineering Assistant*                      Dec 2025 – Present

- Building AI-powered Linux-based reverse engineering framework for automated static analysis of Android APKs
- Developed Python CLI tools automating APK extraction, resource organization, and application inspection workflows
- Implemented robust error handling and modular architecture for analyzing Android application internals and security vulnerabilities
- Integrated intelligent analysis pipelines to accelerate reverse engineering workflows and vulnerability discovery

**PuBOT** | *Portable Ultra ROBOT - AI-Enabled Robotics System*                      Aug 2025 – Present

- Designed and built modular teleoperated robotics system using Raspberry Pi, integrating DC motors, ultra- sonic sensors, and HDMI display for real-time interaction
- Implemented autonomous navigation algorithms and conversational AI capabilities via IntelliBank AI for voice-based control
- Developed embedded Linux workflows for motor control, sensor interfacing, and system-level debugging
- Engineered hardware-software integration achieving reliable performance through iterative testing and optimization

**IntelliBank AI** | *Conversational Banking Assistant*                      June 2025 – Sept 2025

- Built production-ready Java Spring Boot conversational banking assistant simulating core banking workflows through structured chat interface
- Architected RESTful API backend with modular design patterns ensuring scalability, maintainability, and extensibility
- Integrated LLM-based conversational logic using LangChain for intelligent query processing and context- aware response generation
- Implemented comprehensive request-response handling and conversational flow management improving user experience

## EDUCATION

**PSG College of Technology**, Coimbatore                      Expected May 2027
Bachelor of Engineering in Electronics and Communication Engineering
*Relevant Coursework:* Data Structures, Algorithms, Computer Networks, Digital Systems, Embedded System

## CERTIFICATIONS & ACHIEVEMENTS

**HackOn with Amazon** – Advanced to Round 1 of prestigious national-level hackathon
**Android Bug Bounty Hunting** – EC-Council | Hands-on training in vulnerability identification and exploitation
**Additional Certifications:** Cybersecurity Assessment, Kotlin Assessment, BASH Training, Arduino Devel- opment

## LANGUAGES

Tamil (Native), English (Full Professional), Hindi (Professional Working), Kannada (Limited Working)