Adriel Bobby

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Education	Institute/School	Year	CGPA
B.Tech., Computer Science Engineering	Rajagiri School of Engineering and Technology, Kochi	2024-28	7.9
Class 12, CBSE	Rajagiri Public School, Kalamssery	2022-24	8.9
Class 10, CBSE	The Charter School, Pukattupady	2021-22	8.9

CAREER OBJECTIVE

Computer Science Engineering student with a passion for cybersecurity, digital communication, and social media management. Aspiring cybersecurity specialist with strong interests in ethical hacking and cyber-threat analysis.

CERTIFICATES

- **Certified Penetration Tester** | ***RedTeam Academy*** *(May'25 - August'25)*
  - Gained hands-on experience in ethical hacking, vulnerability scanning, and system exploitation.
  - Used industry tools like Nmap, Burp Suite, and Metasploit.
  - Practiced real-world attack scenarios including privilege escalation and post-exploitation.
  - Learned structured documentation and reporting of penetration test findings.

TECHNICAL SKILLS

- **Programming & Scripting Languages**: C, Python, C++, Java
- **Tools & Libraries**: MySQL, Linux, Nmap, Gobuster, WPScan, Joomscan, SQLMap, Metasploit, Searchsploit, Hydra, John the Ripper, Hashcat, Netcat, Tor,Burp Suite, Steghide, Stegseek
- **Tech Domain**: Cybersecurity, Web Application Security, Network Security, Social Media Management

POSITIONS OF RESPONSIBILITY

- **Electronic Communications Coordinator** | ***IEEE RSET Student Branch*** *(March'25-Present)*
  - Responsible for handling all official announcements and communication for the Student Branch.

MAJOR PROJECTS

- **Vaccine Dispatch Tracker**
  - Designed and developed a system to monitor and manage vaccine inventory and distribution.
  - Enabled users to add vaccines with details like name, stock availability, and manufacturer.
  - Implemented features to place orders by specifying quantity, hospital, and delivery state.
  - Integrated stock update and removal of unavailable vaccines.
  - Added report generation with graphical representation of sales and dispatch data.
  - Aimed to assist healthcare professionals and government bodies in tracking and distribution.
  - **Tech Used:** Python, MySQL
- **Mis-Communication-Nater**
  - Developed an experimental AI system that demonstrates the concept of artificial stupidity through intentional design flaws.
  - Uses two AI models that communicate with each other rather than answering queries, creating a deliberately non-functional output.
  - Highlights inefficient use of compute as commentary on AI development and resource allocation.
  - **Tech Used:** Raspberry Pi 4 Model B, Raspberry OS Lite, StableLM Zephyr 3B.Q2_K, LEDs, Web UI
- **ESP32 Marauder (Wi-Fi and Bluetooth Pentesting Tool)** *Ongoing*
  - Setting up and customizing the ESP32 Marauder firmware for wireless auditing and pentesting.
  - Exploring Wi-Fi deauthentication, packet sniffing, and Bluetooth scanning capabilities.
  - Aims to deepen hands-on understanding of hardware-based network attacks.
  - **Tech Used:** ESP32, Arduino IDE, Marauder Firmware, Wireshark
- **Homelab Environment for Cybersecurity Practice** *Ongoing*
  - Building a self-hosted homelab to simulate enterprise network environments.
  - Deploying virtual machines and vulnerable boxes for penetration testing and tool practice.
  - Focused on improving workflow with tools like Nmap, Metasploit, Burp Suite, and SIEMs.
  - **Tech Used:** VirtualBox, Ubuntu Server, Kali Linux, pfSense, Docker

HACKATHON SUBMISSIONS

- **High Torque Vertical Axis Wind Turbine Street Lamp**
  - The project involves the development of a **High Torque Vertical Axis Wind Turbine (VAWT) Street Lamp** system.
  - The system uses a VAWT to convert wind energy into mechanical rotation, which then powers a generator to produce electricity. This electricity is stored in a battery and used to power an LED streetlight.
  - The key components include the VAWT, generator, battery storage, LDR control system, and LED streetlight. The design aims to automate the streetlight operation based on ambient light levels.
  - The initial low starting torque issue was addressed with a kickstarter system, and the over-speeding issue was resolved using a pitch control system.

REFERENCES

- **Academic Reference:**
  Mr.Rajeesh Rajkumar
  Professor, Department of Basic Sciences and Humanities
  Rajagiri School of Engineering and Technology, Kochi
  Contact details available upon request.

SELF DECLARATION

I hereby declare that all the information provided above is true and correct to the best of my knowledge and belief.