RICKY

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Profile Summary

Multidisciplinary Engineering Student with a strong foundation in Cybersecurity, IoT Development, Network Engineering, and Full-Stack Web Development. Proven experience in building secure, scalable systems from embedded IoT devices to web applications. Skilled in vulnerability assessment, embedded communication protocols, and full-stack project implementation. Passionate about leveraging technical expertise to build innovative, secure, and user-centric solutions across diverse tech domains.

Education

Bachelor of Technology in Computer Science and Engineering 2022 - Present

Christ (Deemed to be University), Bangalore

Engineering Experience

Web developer Developer │ Noesis Publishing Services, Coimbatore, Tamil Nadu May 2024 (one month)

Built secure web applications with a focus on data privacy and role-based access controls. Gained experience in implementing secure authentication mechanisms.

Leadership Experience

Club Head │Scripters | Christ University, School of Technology July 2024 - Present

Lead a technical club focused on teaching automation and networking concepts to students. Organized workshops on scripting, and advanced networking techniques. Mentored students on using tools like Python, Arduino, and networking protocols effectively.

Technical Skills

Programming Languages: Python (Intermediate), JavaScript (Basic), HTML5, CSS3, PHP (Basic)
Web Development: Secure Web Development, Responsive Design, Admin Panel Integration
Cybersecurity: Ethical Hacking Basics, Vulnerability Assessment, Burp Suite, Input Sanitization, Secure Authentication
IoT & Embedded Systems: Arduino, Raspberry Pi, RFID Systems, Path-Following Robot, Password-Based Access
Networking: Networking Protocols, Secure Communication, Raspberry Pi Web Server
Databases: SQL
Tools & Platforms: Burp Suite, Git, VS Code, Web Hosting (Hostinger, cPanel)

Projects

Chrisbo | Humanoid Robot 2024 - Present

Developing an AI-powered humanoid robot to assist and guide visitors at our college reception.

- Uses a college-specific AI dataset for context-aware interaction.
- Raspberry Pi 4 (master) communicates with Arduino Mega (slave) via serial for motor/sensor control.
- Integrates motion-enabled motors, camera, and sensors for real-time response.

Tech: Python, Raspberry Pi 4, Arduino Mega, Serial Comm, Sensors, Motors, AI Dataset.

WiFi Monitoring Security Device | Network Intrusion & Object Detection **GitHub**

Built a real-time WiFi intrusion and object detection system using Raspberry Pi and cloud integration.

- Detects suspicious network activity and physical intrusions.
- Sends real-time alerts and captured images via Telegram and a web dashboard.
- Features anomaly detection, object sensing, and historical data analysis.

Tech: Raspberry Pi 4, Python, TP-Link Adapter, MySQL, Telegram API, Ultrasonic Sensors, OpenCV.

HRM Portal | Full-Stack Web App **Live Link**

Developed a complete HR management system for Noesis Publishing Services Pvt. Ltd.

- Automates employee records, attendance, and payroll.
- Built with responsive UI, real-time tracking, and secure access control.

Tech: HTML, CSS, JavaScript, PHP, MySQL, Auth System.

Mini Projects   **GitHub**

Front-End using HTML, CSS, JavaScript **:** Magnovite Event Website, Dance Studio Website, CN-workX Website
Full Stack using HTML, CSS, JavaScript, PHP, MySQL : College Student Notes Portal, Secure Restaurant Website
IoT using Arduino programming (C/C++), **:** Path-Following Robot, Password-Based Circuit Breaker, RFID Cloner
SPI (Serial Peripheral Interface),
RFID Communication (13.56 MHz)

Certifications

- Networking Protocols Basics - CISCO. ˆ
- Introduction to Cybersecurity - CISCO. ˆ
- Basic Ethical Hacking - My Captain. ˆ
- Introduction to IoT and Digital Transformation ˆ
- Introduction to DevOps - Great Learning. ˆ
- SQL and Database Bootcamp - Udemy.

Achievements

- 1st Place, IoT Hackathon – Ranked among 10+ teams, delivering innovative IoT based real-world solutions.
- 4th Place, Smart India Hackathon – Ranked among 40+ teams, delivering innovative real-world solutions.
- Hackathon Participant – Competed in various hackathons, demonstrating problem-solving and coding skills.