RICKY

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Linkedin | GitHub | Portfolio

Profile Summary

Multidisciplinary engineering student with hands-on experience across cybersecurity, IoT development, full-stack web applications, and network engineering. Skilled in building secure, scalable systems—from embedded hardware projects using Arduino and Raspberry Pi to full-stack web platforms using PHP, MySQL, and JavaScript. Adept at vulnerability assessment, authentication systems, and cross-domain integration to deliver reliable and production-ready solutions.

Education

Bachelor of Technology in Computer Science and Engineering - August 2022 - Present

Christ (Deemed to be University), Bangalore

Engineering Experience

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

Engineered a full-stack HRM website using PHP and MySQL, automating employee onboarding and benefits enrollment, reducing HR workload by 40% and saving 20 hours per week.

Strategic and Data Analyst Intern │ Elevate Ecosystem, Bangalore - May 2025 (one month)

Automated large-scale client data workflows using Excel and data cleaning tools, improving reporting efficiency and reducing manual effort by 30%.

Freelancer - Present

Developing secure, responsive web applications with user role management and data protection. Implemented custom authentication systems and admin panel integrations for client projects.

Leadership Experience

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

Leading a university technical club focused on automation and networking. Organized 5+ hands-on workshops on scripting, Arduino programming, and networking fundamentals. Mentored 30+ students in applying tools like Python, Arduino, and TCP/IP protocols to real-world projects and academic competitions.

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: My**SQL
- **Tools & Platforms:** Burp Suite, Git, VS Code, Web Hosting (Hostinger, cPanel), Vercel, Linux.

Projects

Chrisbo │Humanoid Robot - 2024 - Present

- Designing an AI-powered humanoid robot for smart reception using Raspberry Pi and Arduino Mega. Currently implementing serial communication between controllers to enable real-time interaction
- Aims to reduce administrative load and improve visitor flow efficiency by up to 40%. Future plans include secure network integration for remote monitoring and data logging.
- **Tech:** Python, Raspberry Pi 4, Arduino Mega, Serial Comm, Sensors, Motors, AI Dataset.

Wi-Fi Monitoring Security Device | Network Intrusion & Object Detection - GitHub

- Developed a Raspberry Pi-based system for detecting unauthorized Wi-Fi access and nearby object movement.
- Integrated real-time alerting via Telegram API and visual dashboards using cloud-based storage.
- Tech: Python, MySQL, JS, OpenCV, Telegram API.

The Kitchen Food ordering website | Full-Stack Web App - Live Link

- Developed a responsive HR system with PHP, MySQL, HTML, CSS, JS
- With 4 different Secure logins that are Admin, Delivery partner, Cashier, User
- Features include Order management, Delivery partner live location tracker, Monthly Sales report and role-based authentication.

Mini Projects - GitHub

- Developed static websites like CN-workX and Magnovite using HTML, CSS, and JavaScript
- Built College Notes Portal using PHP and MySQL with login-based access
- Designed Path-Following Robot, RFID-based circuit breaker, RFID Cloner using Arduino

Certifications

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

Achievements

- 1st Place, IoT Hackathon – Ranked among 10+ teams, delivering innovative IoT based real-world solutions.
- 1st Place, GenAI hackathon - K.S.R College of Engineering
- 4th Place, Smart India Hackathon – Ranked among 40+ teams, delivering innovative real-world solutions.
- Developed prototypes at hackathons, applying coding and hardware integration skills under time constraints.
- Identified and responsibly disclosed a critical PII exposure at Christ University using ethical hacking techniques like Google Dorking, contributing to improved data security.