RITHIK V E

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Technical Skills

Programming: Python, C++, Golang, JavaScript
Frontend: ReactJS, Flutter
Backend: Node.js, REST APIs, Postman
Database: MySQL
Tools: Git & GitHub, Docker (Beginner), Cisco Packet Tracer, Wireshark
Networking: TCP/IP, Ethernet, CCNA Protocols
Cloud: AWS (Beginner)
Systems: Linux, NI myDAQ, RobotStudio
Security: Cybersecurity Fundamentals

Certifications

- Python Essentials 1 & 2

- CCNA 1, 2, 3

- Introduction to Cybersecurity

Education

B.E. in Robotics and Automation
Easwari Engineering College
2022 – 2026
CGPA: 8.04

HSC (Computer Science)
G.G.S.M.M. Hr. Sec. School
2020 – 2022
82.33%

SSLC
G.G.S.M.M. Hr. Sec. School
2020
72.66%

Career Objective

Motivated B.E. Robotics and Automation student, skilled in full-stack development, networking, and IoT, aspiring to contribute to Cisco's innovation teams through scalable, secure, and intelligent technologies.

Projects

Predictive Maintenance over Ethernet
Real-time data collection from industrial devices over Ethernet; processed sensor data using NI myDAQ and Python.

URL Shortener (React + Go)
ReactJS frontend with Golang backend; REST API integration and MySQL database used.

Smart Irrigation System
IoT system with Flutter frontend, Node.js backend, and MySQL database for live irrigation control.

YOLO-based Weed Detection
YOLOv5 model for weed classification in real-time video; labels overlaid and stored in database.

Smart Curtain Automation
Stepper motor control via ESP32 using Blynk mobile app and MQTT integration.

Gesture/Line Follower Robots
Robots programmed for gesture commands and autonomous navigation.

Internships

MastrLinque Automation (SPM)
Designed and coded automation workflows for industrial robotics applications.

SRM Directorate of Research
Worked on IoT and AI solutions to improve manufacturing processes with prototype development.