

BALA SUBRAMANI E

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Portfolio | LinkedIn | GitHub

EDUCATION

St Joseph Institute Of Technology
Bachelor Of Engineering in E.C.E (CGPA:8.48)

OMR, Chennai
July 2022 - July 2026

EXPERIENCE

ZUNTRA DIGITAL PRIVATE

CHENNAI | June - Sep 2025

Gained hands-on experience in automation and intelligent control, integrating robotics with smart technologies to boost efficiency. Designed and tested control algorithms to enhance system adaptability.

CISCO AICTE INTERNSHIP

ONLINE | June - Aug 2024

Completed an industry-oriented online program focused on networking fundamentals, cybersecurity basics, and cloud concepts. Gained hands-on experience with Cisco Packet Tracer.

BHARATH SANCHAR NIGAM LIMITED

CHENNAI | June - July 2023

Gained hands-on experience in Optical Fiber Communication, Telecommunication, and Networks Layers. Understood working of switching systems, broadband infrastructure, and signal routing protocols.

SKILLS

Programming Languages:	C, Python, HTML, CSS, Socket Programming
Libraries/Frameworks:	Network Fundamentals, Routing & Switching Protocols, Rest API
Tools / Platforms:	Cisco IOS, Git/Github, Cisco Packet Tracer, Vs Code, Wireshark
Databases:	MYSQL, Powerbuilder

PROJECTS / OPEN-SOURCE

DEVNET NETWORK ORCHESTRATOR

CISCO DEVNET SANDBOX

Automated router and simulated switch configuration using Python in Cisco DevNet concepts, including health checks, connectivity verification, JSON reporting, and auto-ticket logging.

ENTERPRISE NETWORK WITH OSPF AND VLANS

CISCO PACKET TRACER

Designed and implemented a three-layer network architecture (Core, Distribution, Access) with VLAN segmentation for six departments, integrated DNS and DHCP services, and configured OSPF routing.

IOT - BASED SMART HOME SIMULATED

CISCO PACKET TRACER

Designed and simulated a smart home network integrating IoT devices (fan, light, door, window, garage) with a wireless router, switch, and IoT server for secure device control and access management.

SMART IRRIGATION SYSTEM

ESP8266, SENSORS, MOTORS

Developed a smart irrigation system using ESP8266 that automates plant watering based on real-time soil moisture levels. Integrated sensors to optimize water usage and low-cost irrigation management.

CERTIFICATIONS

- Computer Networks And Internet Protocol - NPTEL
- Demystifying Networking - NPTEL
- CCNA Switching, Routing, and Wireless Essentials - Cisco Network Academy
- CCST Networking Certification - Cisco Network Academy
- DEVNET Associate - Cisco Network Academy