

BALA SUBRAMANI E

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Linkedin | **GitHub**

EDUCATION

St Joseph Institute Of Technology

Electronics and Communication Engineering (Bachelor of Engineering)

GPA: 8.4

OMR, Chennai

July 2022 - July 2026

EXPERIENCE

Bharat Sanchar Nigam Limited (BSNL)

CHENNAI | June - July 2024

Gained hands-on experience in Optical Fiber Communication, Telecommunication, and Networks Layers.

Understood working of switching systems, broadband infrastructure, and signal routing protocols.

CISCO AICTE INTERNSHIP

OFFLINE | June 2024 - Present

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

SKILLS

Programming Languages: C, C++, SOCKET PROGRAMMING

Libraries/Frameworks: CISCO IOS, NETWORK FUNDAMENTALS, SWITCHING PROTOCOLS, ROUTING PROTOCOLS

Tools / Platforms: GIT/GITHUB, Vs CODE, CISCO PACKET TRACER

Databases: MYSQL, POWERBUILDER

PROJECTS / OPEN-SOURCE

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 with dual core routers and dual ISP connections to ensure fault-tolerant, continuous network connectivity.

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, IoT server for secure device control and access management

DISPLAY SENSOR READING

ESP8266 And SOCKET PROGRAMMING

An ESP8266 NodeMCU project uses sockets for real-time bidirectional communication between the web browser and the microcontroller, enabling low-latency IoT applications such as remote control, sensor monitoring, and smart home automation.

CERTIFICATIONS

- Computer Networks And Internet Protocol - NPTEL.
- Demystifying Networking - NPTEL
- CCNA: Introduction to Networks - Cisco Network Academy
- CCNA: Switching, Routing, and Wireless Essentials - Cisco Network Academy
- CCST Networking Certification - Cisco Network Academy

HONORS & AWARDS

- I secured 2nd place in a Hackathon conducted by Zuntra Digitals, Chennai
- Won second place for the presentation in the National Level Technical Symposium.