

# P S THARANI

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## Objective

Motivated final-year B. E. Computer Science Engineering student with a **strong foundation in Networking, IoT, and Python**. Actively seeking full-time opportunities or internships in network engineering, system support. Skilled in **OSI/TCP-IP models, VLANs, Cisco IOS**, and **web development (HTML/CSS)**. Passionate about working in **innovation-led, venture-driven teams**, with a goal to contribute to secure and **Scalable network infrastructures** in fast-paced tech environments.

## Technical Skills

### NETWORKING:

OSI, TCP/IP, Subnetting, VLANs, Cisco IOS, Packet Tracer, VOIP, Static /Dynamic Routing  
Cisco switches, Fortigate Firewalls(Basic Configuration).

### Tools:

Wireshark, FortiOS, Kali Linux, Packet Tracer, GNS3 (Beginner) etc..

### PROGRAMMING & DEVELOPMENT:

Python, HTML/CSS, IoT Basics, Web Development, Github, Socket Programming in Python.

### BUSINESS & VENTURE SKILLS:

R&D, Competitor Analysis, Market Research, Innovation Strategy.

## PROJECTS

### Automated Emergency Response System Via Satellite (AERSVS) – patented

MAY 2024

Developed a IoT-based emergency alert system that uses satellite communication to automatically detect and report accidents or distress signals, ensuring timely rescue in remote areas. Integrated MEMS sensors and microcontrollers for real-time monitoring and manual SOS activation.

### Real-Time Network Configuration using FortiGate Firewall

SEP 2024

Configured a secure network environment using FortiGate firewall, enabling access control, firewall rules. Demonstrated real-time configuration of LAN interfaces, static routing, and traffic monitoring using FortiOS. Gained practical experience in enterprise-grade network security and segmentation.  
Project link: [LinkedIn Demo](#)

### Disability Support Matching Platform

FEB 2025

Developed a web-based platform using React, Node, Python to connect disabled individuals with scribes in real-time. Implemented a custom algorithm to efficiently match users based on needs and availability, addressing the lack of timely scribe support in society.

## INTERNSHIP

### GNSS Summer Internship- IITTNiF On-site

JUN 2025

Worked on real-time GNSS dual-frequency data to model and analyze **Total Electron Content (TEC)** variations in the **Equatorial Ionospheric Anomaly (EIA)** zone. Utilized tool **Python** for ISMR data preprocessing, applied ionospheric correction models, and developed visualization dashboards to support ionospheric forecasting and precision navigation.

## Cisco AICTE Virtual Internship Remote

**MAY 2024**

Completed the Cisco AICTE Virtual Internship, gaining experience in configuring **routers, switches, VLANs, and securing networks**. Developed skills in troubleshooting, performance optimization, and managing Cisco technologies to design and maintain reliable, segmented, and secure network infrastructures through **real-world scenarios**.

## Certifications

- Cisco AICTE Virtual Internship May 2024
- Introduction to Packet Tracer (Cisco Networking Academy) May 2024
- Networking Essentials(Cisco Networking Academy) Jun 2024

## Achievements:

- Secured **3rd prize** at Hack'o'holic-0.5, a national-level hackathon where I kickstarted my startup journey with an innovative tech solution. [LinkedIn](#)
- Recognized by **DPIIT & StartupTN** for our startup idea, receiving a **Startup Card** from the Tamil Nadu government to support our future growth. [LinkedIn](#)
- Won **1st prize** at **REVOTRONICS'25**, conducted at REC College, where I enhanced my IoT skills and significantly improved my networking and collaboration abilities. [LinkedIn](#)
- **Finalist** at the ongoing **Startup Café** by the Centre for Entrepreneurship Development (Anna University), a prototype funding event offering support of up to **₹6 Lakhs**.
- Won **2nd prize** at Networking Hackathon, where I tested and showcased my networking skills with the support of my college networking instructor.

## Leadership & Member:

- Alumni Meet Coordinator, St. Joseph's College of Engineering – 2024
- Teachers' Day Coordinator, St. Joseph's College of Engineering – 2023
- Student at Cisco CCNA Networking Academy PEP, St. Joseph's College of Engineering – Present
- Member, Coding Club, St. Joseph's College of Engineering – Present

## Education

Bachelor of Computer Science and Engineering, St. Joseph's College Of Engineering  
CGPA(6th SEM): 7.57