

# 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, C Programming, HTML/CSS, IoT Basics, Web Development, GitHub, Socket Programming in Python, Python frameworks(Flask, Fast API,..), API Testing.

### BUSINESS & VENTURE SKILLS:

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

## PROJECTS

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

**MAY 2024**

Developed an IoT-based emergency alert system leveraging satellite communication to automatically detect and report accidents or distress signals, enabling timely rescue operations in remote or signal-deprived regions. Integrated MEMS sensors and microcontrollers for real-time event monitoring and manual SOS activation (low-fidelity prototype). Built local and central servers using Flask and FastAPI to handle data reception, processing, and routing to relevant authorities for rapid response.

### 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 EIA region. Utilized Python for preprocessing ISMR data, applying ionospheric correction models, and developing machine learning models for TEC prediction. Deployed models using Flask and FastAPI to build RESTful APIs for real-time inference. Conducted API testing to

ensure robust integration and reliable performance. Developed interactive 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 Engineering in Computer Science Engineering, St. Joseph's College Of Engineering  
CGPA(6th SEM): 7.57