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, or software roles**. 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, MPLS, Packet Tracer, SD-Wan, VOIP, Static /Dynamic Routing.

Tools:

Wireshark, Cisco Meraki, FortiOS, Kali Linux, Packet Tracer, etc..

PROGRAMMING & DEVELOPMENT:

Python, HTML/CSS, IoT Basics, Web Development, Github.

BUSINESS & VENTURE SKILLS:

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

PROJECTS

Disability Support Matching Platform   **FEB 2025**

Developed a web-based platform using React, Node.js, Python, and SQL 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.

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 a nd 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, NAT policies, and firewall rules. Demonstrated real-time configuration of WAN/LAN interfaces, static routing, and traffic monitoring using FortiOS. Gained practical experience in enterprise-grade network security and segmentation. Project link: LinkedIn Demo

INTERNSHIP

Cisco AICTE Virtual Internship Remote   **MAY 2024**

Completed the Cisco AICTE Virtual Internship, gaining hands-on 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.

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.

Certifications

Cisco AICTE Virtual Internship May 2024

Introduction to Packet Tracer (Cisco Networking Academy) May 2024

Networking Essentials(Cisco Networking Academy) Jun 2024

Achievements

Hack'o'holic-0.5(3rd Prize)

REVOTRONICS'25(1st Prize)

Networking Hackathon(2nd prize)

Recognized by DPIIT & StartupTN for Smart Card Holders project.

Startup Café-CED AU   (Finalist)

Education

Bachelor of Computer Science, St. Joseph's College Of Engineering

- CGPA: 7.57