HEMACHANDIRAN R

Information Technology Student

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ABOUT ME

IT student actively seeking internship opportunities to gain hands-on experience and contribute effectively in the field of information technology, particularly in network management and system security.

EDUCATION

JERUSALEM COLLEGE OF ENGINEERING, Chennai- 600100.
B.Tech INFORMATION TECHNOLOGY
2023 – 2027 (3rd YEAR)
Current CGPA: 8.01%

MOTHER MATRICULATION Hr. Sec. SCHOOL, Chennai- 600100.
HSC– 75%
2021 – 2023

MOTHER MATRICULATION Hr. Sec. SCHOOL, Chennai- 600100.
SSLC
2009 – 2021

SKILL

- Networking Fundamentals
- MySQL Basic Commands
- Windows Server Basics
- Python Programming
- C/ C++ Programming
- OOP concepts
- Visual Studio Code
- Cisco Packet Tracer
- Oracle Virtual Box

LANGUAGE

- English
- Tamil

PROJECTS

⚑ CAPSTONE PROJECT – SECURE ENTERPRISE NETWORK SETUP WITH VIRTUALIZATION & MONITORING

Designed and implemented a secure enterprise network architecture for a mid-sized company setup. The network featured multiple VLANs for segmentation, firewall protection using pfSense, intrusion detection via Snort, and centralized monitoring with Nagios. The infrastructure included both virtual machines and containers for better resource management and scalability.

- Configured VLANs and routing using Cisco Packet Tracer for efficient network segmentation.
- Deployed PfSense firewall and Snort IDS for threat detection and filtering.
- Set up Nagios for service health monitoring across systems and applications.
- Automated backup and service tasks using Ansible playbooks
- **Tools Used:** Cisco Packet Tracer, PfSense, Snort, Nagios, Docker, Ansible, Virtual Box (Windows ,Ubuntu).

⚑ MINI PROJECT – ATTENDANCE TRACKER WEB APP

Developed a user-friendly attendance management system for classrooms or small teams. The application includes login/register functionality for staff, intuitive color-coded UI for daily marking, and secure data storage.

- Designed a mobile-accessible frontend with HTML, CSS, and Bootstrap
- Implemented user authentication for teachers using Flask and MySQL
- Enabled dynamic attendance entry and view for different classes/dates.
- Database managed with MySQL for quick deployment
- **Tools Used:** Python, Flask, HTML/CSS, MySQL, Bootstrap

CERTIFICATIONS

- Certified Junior Typist (First Class) – TNDTE
- Programming Basics – Great Learning Academy
- Networking Basics – Cisco Networking Academy