Shimona Prabhu M.

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Experience

Network Engineer, Cisco   2019 - Present

- Identify security vulnerabilities and implement workarounds to protect the usability and integrity of the network and data.
- Analyze network configuration and setup, recommend changes in the network for optimal operation.
- Monitor migration windows and construct method of procedures for upgrade scenarios.
- Interface with a mixed bag of customers and troubleshoot issues that crop up concerning their network. Akamai, AXA, Swift, Etisalat, and DU, scattered over the world, were some accounts I handled.
- Developed a tracking and operations tool using Django and Angular for simplifying the pipeline of project delivery and track stages of the project's lifetime. The tool which is used by customers and engineers alike phased out redundant project delivery.
- Collaborated with Cisco TAC to implement tracking of backlog cases and trending it against incoming case volume and goals. The target audience was CX Leadership. Python was used to develop this tool.
- Currently working on a phishing detecting system for Cisco Umbrella Research Team.

Software Engineering Intern, Accord Software and Systems   2019

- Ideated and developed a web application for communications within the dev team, combining the functionality of Stack Overflow and Github.
- Enhanced the anti-aliasing algorithm for clean transition of images produced by the GPS unit developed by Accord. This was achieved by implementing multisampling with OpenGL.

Web Developer Intern, Cooey Technologies   2017

- Worked in an Agile framework to build dashboards for remote healthcare solutions using Angular and Java.

Academic and Research Projects

- Remote Weather Assistant using LoRa Network - A LoRa network, which leverages the architecture of a basic LoRa deployment for remote weather sensing. The project was implemented using C++, Python, RaspberryPi, and Arduino.

- Health Monitor for Plants Based on RGB Values - A prototype built using Arduino to estimate the concentration of various nutrients based on the red, green, and blue components present in the reflected light of the plant leaf surface. Based on this, we can make the detection and prevention of plant disease easier.

- E-Commerce Website - A full-stack application that mimics the entire flow of conventional E-Commerce websites. The project was implemented using HTML, CSS, PHP, MySQL, and JavaScript.

- Plagiarism Detector - A Python application that detects duplicate file content by using SHA.

- Attendance Management Portal - A web application to help the college automate and centralize their attendance management. The project was implemented using HTML, CSS, PHP, MySQL, and JavaScript.

Education

Bachelor of Engineering, Information Science and Engineering, PES University, 8.35 CGPA

ISC Computer Science, Bethany Junior College, Stood second in college with 94%

ICSE Computer Science, Bethany High School Stood second in school with 95%

Technical Repertoire

Languages - Java, Python, C, C++, Matlab

Web technologies - Angular, HTML5, CSS3, React, PHP, Django, JavaScript/JQuery, Bootstrap

Database - MongoDB, MySQL, SQLite

Graphics - OpenGL

Version Control - Github, Bitbucket

Web Server- Apache, Microsoft IIS

Operating Systems - Windows, Ubuntu, Kali Linux

Others - Arduino, Raspberry Pi, Wireshark, GNS3, Cisco Packet Tracer, Ansible, Splunk, Docker, Heroku, Postman, Kali Tools

Extracurricular Activities

Regional ECN Giving Back Lead, Cisco

ECN APJC Newsletter team, Cisco

Licensee, Speaker Curator, and Lead Organizer, TEDxPESITBSC, PES University

Secretary, IEEE Student Chapter, PES University

Volunteer at NGOs GiftAbled and eVidyaloka

Tech, Theater and Creative Team, PES University

School house captain, Bethany High School

Literary Captain, Bethany High School

Publication and Conferences

Shimona Prabhu M, Dr Annapurna D, Shamshirun Ibrahim, Kaja Venkata Sai Shravan, & Preethu Raj Roy. (2019). Remote Weather Assistant using LoRa Network, an Enhancement of IoT Design. Advancement of Computer Technology and Its Applications, 2(2), 1–9. http://doi.org/10.5281/zenodo.3490390.

Health Monitor for Plants Based on RGB Values, Recent Innovations in Science and Engineering Conference, 2018.

Certifications

CCNP - Routing and Switching, CCNP - Enterprise

CCNA - Routing and Switching

Cisco Certified DevNet Associate

Awards

Benefit Everyone - You Inspire 3 for TOP Tool, Cisco

Our People Deal - You Inspire 2 for consistent performance, Cisco

Our People Deal - You Inspire 2 for volunteering efforts, Cisco

Best outgoing student, Bethany Junior College

Amul Vidya Shree Award, Bethany High School

Competitions

Winner, SANS CyberStart Challenge

Winner, DoSelect Winter of Code

Final Round, Intech Olympiad

City Finals, Times Think and Learn Challenge

Gold Medal, HDFC Bank Meritus Scholarship

City Finals, IIHM Young Chef