

Shimona Prabhu M.



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Experience

Network Engineer, Cisco

2019 - Present

- Identify security vulnerabilities and implement workarounds to protect the network and data integrity.
- 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 concerning their network. Akamai, AXA, Swift, Etisalat, and DU, scattered over the world, were some of the accounts that I led from the front.
- Developed a tracking and operations tool (TOP) using Django and Angular for simplifying the pipeline of project delivery and track stages of the project's lifetime. By clustering similar projects, the tool phased out 27% of redundant projects. The tool is used by engineers and customers alike.
- Collaborated with Cisco Technical Assistance Center to implement tracking of backlog cases and trending it against incoming case volume. The tool developed using Python saved upwards of 900+ man-hours.
- Used Python for telemetry analysis, security vulnerability classification, and network inventory management.
- Built probability models using Python for various Cisco Services to project contract renewal chances.
- Currently working on a phishing detecting system for Cisco Umbrella Research Team using Python.

Software Engineering Intern, Accord Software and Systems

2019

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

Web Developer Intern, Coeey 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.
- Health Monitor for Plants Based on RGB Values - A prototype built to estimate the concentration of various nutrients based on the red, green, and blue components present in the light reflected off a plant leaf surface. Using this, we can make the detection and prevention of plant diseases easier.
- E-Commerce Website - A full-stack application that mimics the entire flow of a conventional E-Commerce website. 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.
- Miscellaneous - Hobby Projects such as my Personal Website (Portfolio), Twitter Sentiment Analysis, Web Activity Tracker, and Telephone Billing Software.

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

Databases - MongoDB, MySQL, SQLite

Graphics - OpenGL

Version Control Systems - Github, Bitbucket

Web Servers- Apache, Microsoft IIS

Operating Systems - Windows, Ubuntu, Kali Linux

Others - Arduino, Raspberry Pi, Wireshark, GNS3, 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

Secretary, IEEE PESIT-BSC Student Chapter

Volunteer at NGOs GiftAble and eVidyaloka

Tech, Theater and Creative Team, PES University

School house captain, Bethany High School

Literary Captain, Bethany High School

Publications and Conferences

Shimona Prabhu M, Dr. Annapurna D, Shamshirun Ibrahim, Kaja Venkata Sai Shravan, and 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, 2017.

Certifications

CCNP - Routing and Switching, CCNP - Enterprise

CCNA - Routing and Switching

Cisco Certified DevNet Associate

Awards

Benefit Everyone - You Inspire 3 Award for TOP Tool, Cisco

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

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

Best Outgoing Student, Bethany Junior College

Amul Vidya Shree Award, Bethany High School

Competitions

Winner, SANS Cyberstart Challenge

Top 10, Secure Code Warrior Tournament

Winner, DoSelect Winter of Code

Final Round, Intech Olympiad

City Finals, Times Think and Learn Challenge

Gold Medal, HDFC Bank Meritus Scholarship