

Shivam Trivedi

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EDUCATION

Purdue University, West Lafayette, IN

Bachelor of Science in Computer and Information Technology

Majoring in Networks Engineering Technology

Intended Graduation Date: **May 2019**

Current GPA: **4.0; Dean's List; Semester's honors list**

TECHNICAL SKILLS

- **Programming languages:** Experienced in Java, SQL, HTTP, and Bash scripting; Intermediate in C#, C, Python, CSS, PHP, JavaScript and DockerFiles
- **Software and Technical skills:** Configuring/Maintaining Networks and Networking devices (routing, switching and wireless), Large-scale Linux Systems Administration, Bash-scripting, Server management, Cybersecurity (best-practices, encryption, monitoring, log analysis), Docker systems, Apache web-server, Hardware and Software Troubleshooting, Networking Fundamentals, Virtualization, Windows Systems Administration, RADIUS, Windows Active Directory, Understanding of SDLC, Project Management
- **Languages:** Fluent in English, Hindi and Gujarati
- **Certifications:** Certified Wireless Network Administrator (CWNA)

RELEVANT EXPERIENCE

Network Support Engineer - Intern, Cisco Meraki – San Francisco

June 2018 – August 2018

- Closed over 300 cases in 8 weeks for Cisco Meraki's enterprise customers for the entire stack (highest in the team)
- Root cause troubleshooting of networks including Firewalls, Switches, Wireless APs, Systems Manager, and IP Cameras
- Coordinated with the Engineering team to identify and troubleshoot bugs in the Cisco Meraki product stack
- Set up the Lab infrastructure for the support team, and helped customize the Inventory Management System (PHP)
- Set up a Monitoring System for the support infrastructure (over 200 machines) using Syslog, SNMP, ELK and Grafana

Systems Engineer, Rosen Center for Advanced Computing, Purdue University

January 2018 - Present

- The Systems Engineering student lead on the Bro Network Monitoring System project at Purdue University
- Part of a 2-year NSF research grant which includes a research presentation and research paper at the end
- Cluster can monitor up to 400Gbps (over 50% of Purdue's total capacity) of traffic with real-time logging and visualization
- Setting up infrastructure using Puppet, xCAT, Bro, Git, ELK stack, Arista switches, and more
- Project involves a lot of automation for rapid scaling if required, and automatically detecting and blocking threats

Teaching Assistant, Purdue University

August 2017 – Present

- Teaching Assistant for CNIT240, the introductory Network Engineering class for Network Engineering students
- Developed lesson plans, graded assignments and lab reports, and taught the lab section of the class
- Topics of labs including Switching, VLANs, subnetting, DHCP, and basic routing
- Rated 4.7/5 and 4.9/5 as an instructor (>90% response rate) for Fall 2017 and Spring 2018 respectively

Student Systems Administrator, Rosen Center for Advanced Computing, Purdue University

March 2016 – May 2018

- Responsible for maintenance and upkeep of all of Purdue's supercomputers (over 3000 servers), including hardware and software troubleshooting
- Creating and deploying shell scripts to automate feature-enhancements and error corrections
- Decrease of failure rate of clusters from 15-25% to under 2%, while coordinating with multiple vendors
- Configuration of networking equipment and firewall rules, including at a host level
- Worked here full-time (internship) over Summer 2016 and Summer 2017

PROJECTS

- Created a small cluster for personal use, which runs multiple applications including a Website, Media Server, DNS, mini-compute cluster, Authentication System, Git Server, Email Server, and more. The cluster is structured as a Content Delivery Network, with a load-balancing Front-end and reverse proxying. I'm still expanding the cluster as I go

LEADERSHIP AND COMMUNITY SERVICE

- President, Vice-President (2017-18) and founding member of the Computer and Information Technology Student Council.
- Winner of CyberForensics, Linux, and the High-Performance Computing challenges at Purdue AITP's IT Career Day (2018)
- Honorable Mention at the Association of Information Technology Professionals (AITP) National Collegiate Conference Network Design competition. Also ranked 14th in the country in the Cybersecurity competition at the same conference
- Secretary at Purdue Cyber-Forensics Club (2016-2017). I was the Risk Officer and Social Media Officer for the club before that
- Camp Counselor and Teaching Assistant at the Purdue GenCyber Cybersecurity camp at Purdue University for high schoolers (2016)