

VARUN SUDARSHAN

Buffalo, New York

📞 716-348-2462 ✉ vsudarsh@buffalo.edu [in linkedin.com/in/varunsudarshan](https://www.linkedin.com/in/varunsudarshan)

Education

University at Buffalo, SUNY

Master of Science in Computer Science

Aug. 2021 – Dec 2022

Buffalo, New York

Visvesvaraya Technological University (VTU)

Bachelor of Engineering in Computer Science and Engineering

Aug. 2014 – May 2018

Bangalore, India

Relevant Coursework

- Computer Networks
- Design and Analysis of Algorithms
- Software Engineering
- Operating Systems
- Network Security
- Theory of Computation
- Data Structures
- Database Management Systems
- Compiler Design

Experience

Software Engineer 2

Cisco Systems, Inc.

Bangalore, India

Oct 2020 – Jul 2021

- Developed Terraform templates for Cisco NGFWv products to be deployed on Oracle Cloud (OCI)
- Developed scripts to deploy Cisco NGFWv Azure templates with minimal effort
- Developed scripts to automate the creation of Release Images on Azure Cloud
- Created automation pipelines for publishing Cisco NGFW offerings on AWS, Azure and Oracle Cloud (OCI)
- Developed a Cost Summary mailer for AWS using AWS Lambda

Software Dev Senior Associate Engineer

SonicWall, Inc.

Bangalore, India

Sep 2018 – Oct 2020

- Worked on Automatic Discovery and configuration of Network Switches attached to SonicWall Firewalls by using LLDP packets and ARP entries
- Designed and developed a Screening Feature to let customers know the health of a Firewall and recommend additional features that could be beneficial
- Worked on the development of a configuration analysis tool for Next Generation Firewalls
- Developed a Python based tool that unifies communication standards between multiple generations of Firewalls

Intern

Gnani.ai

Bangalore, India

Apr 2018 – May 2018

- Developed Web crawlers for accumulating Newspaper data for 8 Indian local languages
- Managed large chunks of data by setting up nightly backups and optimized the backups to reduce data overlap
- Cleaned the data set and prepared it to train a Speech translation model

Technical Skills

Languages: Python, C++, C, Bash, HTML/CSS, JavaScript, SQL

Technologies/Frameworks: Linux, Git, Docker, Network Automation, Terraform, Azure SDK, LLDP, DHCP

Projects

Real time Aircraft Detection using Software Defined Radio

- Created a cost effective early warning system to detect nearby unknown aircraft by monitoring Radio broadcast Signals
- Used Raspberry Pi and RTL2832U based SDR to create a Multi-node data collection system

Optimizing Memory efficiency in CCTV surveillance systems

- Studied the efficiency of removing redundant frames using Hardware interrupts and Software post-processing methods. Published a research paper on the efficiency analysis of various solutions.

VS Code Extension to decode Configuration files

- Decodes SonicWall Firewall configuration files into readable plain-text data with a single click