VED PATEL
Graduate Student | Software Engineer

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Graduate student pursuing Masters of Science in Computer Science at Penn State Harrisburg. Experienced Software Engineer with a demonstrated history of working in the computer networking industry. Skilled in C, C++, Python, Ruby on Rails, Golang.

Education

2019 - Present **Master's of Science in Computer Science**, Pennsylvania State University.
2014 - 2018 **Bachelor's of Technology in Computer Science and Engineering**, SRM University

Experience

May 2018 – June 2019 — Software Engineer, Lavelle Networks, India

- Performance evaluation and improvement of the networking stack.
- Packet Loss Ratio calculation for a path and using it along with other parameters to assess path quality.
- Dynamic Path Selection for packets supporting application aware path selection, packet-by-packet load balancing at flow level.
- Developed Security module for the SDN Controller comprising of IDS and IPS.
- Mentored a team of interns and conducted training sessions for support team and new employees.
- Maintained and established trusting relationships across teams.

C | Bash | Python | TCP | Golang | Powershell | Lua | Wireshark | Mininet | ARM Processor

December 2017 – April 2018 — Software Engineer Intern , Lavelle Networks, India

- Created APIs for SDN Controller to manage and monitor the network over the internet.
- Implemented Role Based Access Control for the Controller.
- Scaled applications to support load changes

Ruby on Rails | Django | Flask | AngularJS | Nginx

Projects

AVD-Pipeline — February 2020 - Present

A Distributed Pipeline, which aims to provide an infrastructure to connect the hardware resources and divide the 'pipelinable tasks' into stages and process them in parallel and in order, synonymous to an assembly line of a software task.

C | Git | Vagrant | Simulation

Decision Tree Classifier Library — August 2019 – November 2019

Designed and developed dataset independent C++ library for Decision Tree Classification and Random Forest Classification. The accuracy provided by the library is at par and significantly efficient than python ML library SKLearn.

C++ | Python

Reliable Networks using Flow based LB and Multiple WANs — August 2017 - May 2018

Load balancing framework at parcel granularity over various low-bandwidth, low-quality wide territory organize joins. Achieved by building a collected association of WANs with execution properties comparative to that of a solitary high-bandwidth association

C | Python | Mininet | VirtualBox | Git

Skills

Programming/Scripting	C, C++, Python, Ruby, Golang, Javascript , Shell Scripting, HTML5 , PHP, Lua.
Frameworks	Django, Ruby on Rails, Flask, Laravel, AngularJS
Platforms	Linux/Unix, Windows
Tools	Nessus, Qualys, Git, Wireshark, Atlasian, AWS, Azure, Digital Ocean, VirtualBox, Vagrant