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 on software application development and systems programming in the computer networking industry. Skilled in C, C++, Python, Ruby on Rails, Golang.

Skills

Programming	Java, Python, C/C++, Golang, SQL
Frameworks	Django, Ruby on Rails, Flask, AngularJS, Twitter Bootstrap
Platforms	Linux/Unix, Windows
Tools	AWS, Azure, Git, Redis, Nginx

Education

Master's of Science, Pennsylvania State University — May 2021 (Expected)
Major in Computer Science with GPA of 3.67

Bachelor's of Technology, SRM Institute of Science & Technology — May 2018
Major in Computer Science and Engineering with GPA of 8.961

Experience

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

- **Hierarchial Data Cache :** Generic function cache middleware to improve the cache hit rates improving the overall cache hit ratio by 84% using redis and a custom in-memory cache
- **Health Monitoring :** Automated diagnostics and troubleshooting bots for common problems in Data centers and end nodes using Golang, web-sockets and Slack as the user interface
- **Stats Engine :** Collect statistics from data plane, perform analytic operations and send the data to SDN controller application for visualization using Python.
- **Access Control :** API authorization in SDN controller application based on multiple segregation of user's role in organization using Python and Ruby
- **IDS :** Control plane and SDN controller application module for IDS interconnected with each other to monitor and visualize real-time network traffic threats using Django, AngularJS (1.x) and Ruby

Internships

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

- **Micro services :** Multiple micro services to manage and monitor enterprise networks
- **Unit tests :** Unit tests for all modules covering all test cases to deliver a bug free product
- **Penetration Testing :** Black box and white box VAPT audits on end nodes of the network

Projects

Hyperline — February 2020 - May 2020

A Distributed Pipeline, which performs each stage of task in series and multiple tasks in parallel to increase performance

Decision Tree Classifier Library — August 2019 – November 2019

Designed and developed generic C++ library for Decision Tree Classification and Random Forest Classification.

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

Load balancing framework achieved by building a collected association of WANs comparative to that of a solitary link