

Shivang Vikram Singh

Network Engineer & Data Science

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2+ years of experience in Network Engineering. Aspirations to grow in a professional setting, where I can use my skill sets in the field of Computer Networking, Cloud Computing and Security Domain

EDUCATION

Master of Science in Electrical Engineering San Jose State University

08/2016 - 12/2018

San Jose, CA, USA

Courses

- Internetworking

Mobile and Wireless Networking

- Broadband Communication

- Network Security
- Voice and Data Networking
- Software Defined Data Centers

Bachelor of Technology in Electrical Engineering Mahatma Jyotiba Phule Rohilkhand University 🗷

08/2011 - 05/2015 Bareilly, India

WORK EXPERIENCE

Full Stack iOS Backend Engineer Intern BottlesTonight, Inc. 🗷

01/2018 - 05/2018

San Francisco, CA

- Exposed attributes on Active Admin Dashboard for venues using Ruby on Rails, PostSQL & GitHub.
- Modified and exposed the days of week available at Section level foe venues, increasing efficiency by 20%.

Electrical Division Intern

Indian Farmers Fertilizers Coop Ltd. 🗷

05/2014 - 07/2014

Bareilly, India

Bareilly, India

- **Achievements**
- Developed work procedure for electrical machines installed in the plant and helped in improving SWAT analysis of the organization.
- Improved the efficacy of Gas Turbine Generators, including Compressor and Combustion System to produce Sodium and Naptha in the plant.

Electrical Engineer Intern

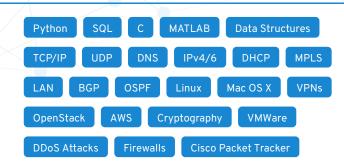
Indian Railways 🗷

05/2013 - 08/2013

Achievements

- Scrutinized ideas to solve delays and lack of power supply and huge energy losses by autotransformer in the locomotives.
- Performed No Load Test for an assembled traction motor, by increasing the motor rate and rotation, to see positive effect in speed.

SKILLS



ACADEMIC PROJECTS

Full Stack Hybrid Object Compressed Storage System 🗹

- Developed a cloud based highly scalable full-stack application that backups the data uploaded using OpenStack, NexentaStor and AWS.
- Evolved a policy to convert blocks of data into objects and then compress them before sending it to local storage and further to the Cloud.

Network Traffic Analyzer

- Analyzed traffic on LAN and extracted IP addresses of blacklisted websites and the users trying to access such websites by parsing pcap file.
- Used cli & kml formats to see the location with their coordinates and depicted visually on Google Maps.

Voice over Wireless Ad-Hoc Networks 🗹

- Implemented Voice over IP (VoIP) using SIP connections over Ad-Hoc
- Performed SIP based experiments on Call Establishment, Busy Lines, Call on Hold and Conferencing Calling. Also, calculated the Mean Opinion Score (MoS) value of the calls over a LAN connection.

Mobile Network Statistics

- Simulated a mobile network with for point-to-point communication using a C++ script, calculated throughput as a function of number of users.
- Performed simulation for a three-node network; by increasing the distance and enabling RTS/CTS in the network.

Simulation of MPLS protocol using NS-3 Tool

- Simulated MPLS computer network by Linux OS using command line interface (cli format).
- Observed the route taking lowest Time-to-live (TTL) among all networks.

CERTIFICATES

CCNA (R&S) by Cisco

In progress

Complete Python Bootcamp by Udemy

tinyurl.com/ydfed516

AWS Certified Solution Architect

In progress