**AJAY SHETE**

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**EDUCATION**

**New York University, Tandon School of Engineering,** New York, NY *May 2019*

Master of Science in Computer Science *GPA: 3.3*

*Courses: Computer Networks, Network Security and Application Security, Design & Analysis of Algorithm, Principles of Database, Introduction to Data Science, Cloud Computing and Artificial Intelligence*

**University of Pune, SKNCOE,** Pune, India *May 2017*

Bachelor of Engineering in Computer Engineering *GPA: 3.3*

**SKILLS**

**Technical Languages:** Python, HTML & CSS, XML, PHP, MySQL, SQL, JavaScript, C, C++, Java

**Software:** vim, Sublime, AWS, WordPress, Binary Ninja, BurpSuite, Wireshark, Sandwich, Google Firebase, Django

**OS:** Kali, Windows, Mac, Unix, Linux, Ubuntu, Android

**Network:** TCP/IP, VPN, HTTP, HTTPS, DNS, DHCP, OSPF, MPLS, nmap, iptables, ScaPy, IPSec, XSS, XSRF.

**WORK EXPERIENCE**

***Cyber Security Lead Instructor,* NYU K-12 STEM Program** *June 2018 – Aug 2018*

* Taught high school students Computer Networks, Cyber Security and Programming Basics at NYU & Sunset Park High School.
* Developed interactive activities and labs to teach students the importance of cyber security and created hands-on experience.
* Coordinated visits with invited guest speakers from Tor Project, DTCC, Morgan Stanley and Palo Alto.

***Software & Network Engineer,* MTA NYCT**   *May 2018 – Present*

* Migrating Access database by developing a Web interface for Bus & Train scheduling.
* Adding firewall rules and testing websites for SQL injection attacks for a secure work environment.
* Optimising the scheduling mechanism by dividing the data and procedures and provide an interactive interface to the scheduler.

***Digital Teacher Assistant*, New York University** *Oct 2017 - Present*

* Managing the official NYU Tisch Photo and Imaging website.
* Teaching students Web development, Graphic designing and Web-hosting using FTP connections & GitHub.
* Managing laboratories, checking remote access and maintaining the Pixie server for data transfer within the department.

***Launched Find Ganesha*, Ink Pixel** *July 2017 – Sep 2017*

* Launched an android start-up called *Find Ganesha* on Google PlayStore for regional festival in India using Java, XML, MySQL, PHP. Link to application: [*https://play.google.com/store/apps/details?id=example.com.mapsapplication*](https://play.google.com/store/apps/details?id=example.com.mapsapplication)
* Application made light-weight and graphical user interface improved allowing anyone with an android device to use it freely.

**ACADEMIC PROJECTS**

***Automatic Chat-Bot using AWS***

* Developed a chat-bot using AWS services such as S3 which stored the web app, API gateway to allow S3 to communicate with Lambda functions and Lex to enable the AI feature.

***DDoS and Man-In-Middle attack***

* Developed a Python code on Kali machine to flood the router with DHCP requests which led to DHCP starvation for the legitimate machine request.
* Man-In-Middle attack using ScaPy to deceive the victim to gain their information and updating the router with the attacker’s IP.

***Network Architect***

* Assigning IP addresses and subnet masks to machines and routers to establish connection between the machines in that area.
* Established static routes between routers and machines in Virtual Network (vital) to interact with each other by defining gateways and path to each router & machine.
* Upgraded to Dynamic routes using OSPF protocol (Quagga) enabling automatic connection without defining the paths.

**LEADERSHIP EXPERIENCE/COMMUNITY SERVICE**

***SOEciety 3.0, NYU*** *Sep 2017 – present*

* NYU OSARC club working to be a catalyst of change in a person’s life.
* YMCA facility improvements for children’s areas; Cradles to Crayons to support children in foster or shelter care.

***Leader of People’s Welfare Group****,* **Government of India** *Sep 2015 – May 2017*

* National Service Scheme is a government organization working for the betterment of the people in India.
* Visited village of Ale on the outskirts of Pune to increase awareness of proper health care, personal and environmental hygiene. Cleaned the streets of the village, hosted an event in a local school and planted trees along with community members.
* *Mega Tree Plantation Drive* in May 2016, with Colleges and schools from across the State.

**HONORS**

Graduate Merit Scholarship *May 25, 2017*

Emerging Leader Award, NYU *Mar 12, 2018*