AJAY SHETE

abs717@nyu.edu | (929) 340-4912 | 95-23, 3rd Fl, 85th St., Queens, NY, 11416

https://snwajax.github.io | https://www.linkedin.com/in/ajay-shete/ | https://github.com/SNWajax?tab=repositories

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*
- 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*