

# HIRDESH AHUJA

Kearny, NJ • (732)-766-1243  
hirdeshahuja@gmail.com • ha357@njit.edu

## EDUCATION

**Master of Science in Cybersecurity and Privacy** - New Jersey Institute of Technology (May 2019) 3.95 GPA  
**BEng in Computer Engineering** - MES College of Engineering, Pune, India (May 2016)

## WORK EXPERIENCE

**SUEZ Water**, Paramus, NJ (*Project Intern*) Sept - Dec 2018

- Developed a python script to automate the process of detection of a phishing email.
- The project uses Python for the original script, REGEX for data parsing and analysis, and APIs of open-source analysis tools like RiskIQ, Virustotal, IBM X Force Exchange, Hybrid-analysis etc.

**New Jersey Institute of Technology**, Newark, NJ (*Teaching Assistant*) Jan - Dec 2018

- Worked as a Teaching Assistant, Grader for an undergraduate course (CS-356, Introduction to Computer Networking) and a graduate (CS-656, Internet and Higher Layer Protocol) level course.

**Flyrobe**, Mumbai, India (*Frontend Developer*) Dec 2016 - July 2017

- UI development for Flyrobe website, and other web pages (www.flyrobe.com)
- Unit testing of web pages and API testing using Postman.
- Developed Analytics Dashboards using JavaScript, MySQL.

**Trell**, Mumbai, India (*Web Development Intern*) June 2016 - Nov 2016

- Front End development of the Trell website and other webpages under Trell.
- API testing using Postman and Advanced Rest Client (ARC).
- Developed the Admin panel to display analytics stats using MySQL, JavaScript.

## SKILLS

**Web Development & Frameworks** - HTML, CSS, PHP, JavaScript, jQuery, AJAX, Bootstrap, material design lite, Foundation.

**Version Control** - GitHub, bitbucket.

**Network Protocols** - TCP, UDP, FTP, HTTP, HTTPS, DNS, DHCP, SFTP, BGP.

**OS, Virtualization hypervisors** - Linux, MacOS, Windows, VMware, Virtual Box.

**Network Management & security** - Wireshark, Firewalls, VPN, Access control lists, NAT.

**Other** - Python, C, shell commands, Postman, Advanced Rest Client (ARC), MS Office 365.

## PROJECTS

**Library Database Management Application** - Created a database for Library network across the country for all branches with records of all documents present. It also had the facility for the readers to reserve documents online and an automated fine system for late book returns. The project was developed using MySQL, PHP, and HTML.

**HTTP - Blocking Proxy Server** - Developed a proxy server using C programming to receive HTTP requests from clients. It checks the domain and allows/blocks the requests depending on the requirements. Deployed the proxy server on AFS.

**Cookiejacking** - Captured traffic with Wireshark for a target website. Analyzed and grabbed cookies to find username & password, used these cookies to gain access to the website.

**Network Design** - Designed a Virtual Network with Routers & Switches. Configured Layer 2 and Layer 3 security.

**Firewall and VPN Configuration** - Deployed pfSense firewalls between two networks. Configured Firewalls rules. Implemented Network Address Translation/Port Address translation.

## EXTRACURRICULAR ACTIVITIES

- Published "AlzHelper: A Ubiquitous Application to Assist Alzheimer's Patients" in the International Journal for Innovative Research in Science and Technology (IJIRST).
- Freelance features writer for Sakal Times - Wrote articles on youth-centered issues, for the weekly "Mélange" section of the local English newspaper.