

NEELKUMAR PATEL

+1 (908)-829-4298 | nnpatel@terpmail.umd.edu | Hyattsville, MD

LinkedIn: <http://www.linkedin.com/in/neelkumarpatel> | GitHub: <http://www.github.com/neelpatel05>

EDUCATION

University of Maryland, MD

Master of Engineering in Cybersecurity

Expected May 2021

- Related Courses: Hacking C Programs and UNIX Binaries, Networks and Protocol, Penetration Testing

Gujarat Technological University, India

May 2019

Bachelor of Technology in Information Technology, GPA: 4.0

- Honored and awarded "Dewang Mehta IT Award" for being TOP RANKER and BEST PROJECT in the final semester of class 2019.
- Acquired government funding for a national level project from Student Start-up & Innovation Policy (SSIP).

TECHNICAL SKILLS

Programming	: C, C++, Java, Python, Go, Android, SQL
Databases	: MySQL, Oracle, NoSQL, MongoDB
Platforms	: Linux, Ubuntu, Kali, macOS, Windows
Web Development	: HTML, CSS, PHP, JavaScript, Node JS, AngularJS
Networking and Hacking Tools	: NMAP, Metasploit, Wireshark, TCP/IP, DNS, OSI Model
Other	: IAM, AWS, Git, JSON, SOAP, REST API, Flask, Docker, Machine Learning, Data Analysis
Certifications	: Machine Learning for Engineering and Science Applications, Programming with Python

TECHNICAL EXPERIENCE

Intern, OpenEyes Software Solutions Limited

Jan 2019 – Apr 2019

- Researched the latest technologies to develop a convolution neural network software "Anti-Smotify" and attained 92% accuracy.
- Collaborated with a peer intern to build the platform and successfully deploy to the server within 3 months of time frame.
- Responsible for Identity Access Management for the development of the platform using Amazon Web Services (AWS).
- Inspected and resolved API request and response errors using Wireshark to rectify the errors.
- Diagnosed and exposed the software vulnerabilities to propose solutions for increasing software security.

Intern, Gujarat Alkalies and Chemicals Limited

June 2017 – July 2017

- Worked alongside Management Information System department to establish a Decision Support System platform "Hydrogen Utilization" to analyse and measure the hydrogen usage and production on the plant site.
- Designed and evaluated protocol security of the Enterprise Resource Planning software using in-house tools.
- Minimized the vulnerable security issues to 30% of the Decision Support System developed by the MIS department.
- Completed 38 pages report on the Decision Support System platform one week ahead of schedule.

PROJECTS

Brute force ZIP - Go, Python

- Implemented a terminal program to perform a brute force attack on the password-protected zip files.
- Python scripts generate the word list and go script performs the brute force attack with each password in the word list.

Brute force SSH - Go, Python, Wireshark

- Designed and developed a brute force attacking software to hack the remote machines with SSH protocol.
- Formulated the software with crunch tool to generate the word list to facilitate the brute force attacking process.

Peer-to-Peer File Transfer Server - Go, HTML, Wireshark

- Developed FTP server to share files and folders from the computer to remote machines via IP.

JSON Web Tokens, JWT - Go, Python, Postman, REST API

- Developed a secure REST API implementing JSON web tokens to assert claims between two parties or endpoints using RFC 7519 industry standard.

Cryptographic Algorithm - Python

- Devised and implemented a cryptographic algorithm for secure transmission of encrypted data.
- Formulated algorithm randomly generates the key from the input data with varying size and length.

ACTIVITIES

Coordinator, Indian Society for Technical Education, India

Aug 2016 – Aug 2019

- Conducted seminars and workshops among peers to impart knowledge about recent innovations of 21st century.

Event Manager, University Technical Festival

- Increased the students participation by 50% over a period of 1 year and directly managed around 30 students participating in event.