Kang In Park

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EDUCATION

New York University, Tandon School of Engineering   **New York, NY**
Major: B.S Computer Science   *May 2023*
Minor: Cybersecurity   Present cumulative GPA: 3.6
Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Computer Architecture, Design & Analysis of Algorithms, Offensive Security, Computer Security, Operating Systems, Application Security, Applied Cryptography, Network Security, Software Engineering

EXPERIENCE

SecurityScorecard   **New York, NY**
Signal Intelligence Collections Intern   *June 2022 - August 2022*
- Worked with the Signal Intelligence team to optimize scanning agents utilizing **Nmap** and **Masscan** to scan IPs for CVEs
- Implemented time-based batch-send function in **Python** for stat logging to **Datadog** with locks to ensure thread safety, resulting in more efficient network calls made per agent from around 100 network calls to only one every 10 seconds
- Laid the groundwork for transitioning into a more reliable vulnerability API for **NSE scripts** with **Lua**
- Added GeoIP awareness by tagging Masscan results with geographical data and managed **Kafka** data streams through **Confluent Cloud** and **KSQL**, allowing for optimal task allocation to Nmap agents based on geographical data

Republic of Korea Air Force   **Chungju, South Korea**
Enlisted Aircraft Mechanic (Staff Sergeant)   *August 2019 - May 2021*
- Collaborated with lead aircraft mechanics in diagnosing malfunctions within LRU components of the F-16 Fighting Falcon through use of Automatic Test Equipment, reducing time taken for each technical inspection by 20%
- Accelerated workflow by 50% by automating bi-weekly tasks, which previously took 2 days to complete manually, through use of **VBScript** and **Regex**-style pattern matching in Korean word documents
- Increased efficiency of LRU functional checks by translating aircraft maintenance manuals from English to Korean, saving approximately 5 hours of work per LRU for lead mechanics with limited English proficiency
- Managed a team of three enlisted airmen and delegated operational tasks, transferring work knowledge for onboarding

NYU TRIO Scholars   **New York, NY**
Python Tutor   *March 2018 - May 2019*
- Provided one-on-one tutoring to 9 peer students in achieving academic goals through personalized tutoring sessions for the following courses: Data Structures and Algorithms, Introduction to Python
- Helped develop solid understanding of core programming concepts (loops, functions, classes, recursion) and data structures (stacks, queues, trees, hash tables) by devising structured tutoring sessions with semester-long progress tracking
- Prepared students for upcoming exams by designing practice problems around asymptotic analysis of algorithms

PROJECTS

Discord Chat Bot - WillaBot
- Delivered a Discord bot used by 5000+ users by utilizing the Discord.py API to interface with 20+ servers
- Implemented using **Python Async** functions to allow simultaneous handling of multiple user requests through the backend
- Utilized **PostgreSQL**, **AWS S3**, and **Heroku** to save user data, store media assets, and host the chatbot

ACTIVITIES

OSIRIS Lab (Offensive Security, Incident Response, and Internet Security Lab)
Lab Member
- Tested challenges for CSAW CTF Finals competition leveraging tools like **Docker**, **Powershell**, and **VirtualBox**
- Participated in online CTF competitions (SunshineCTF, SwampCTF, BuckeyeCTF, etc) with up to 700 competing teams in categories such as cryptography, web, reverse engineering, binary exploitation (link to write-ups)
- Identified vulnerabilities and devised exploits using attacks such as **SQL injection** and **Template injection**

SKILLS

Certificates: CompTIA Security+
Languages: Python, SQL, Bash, C++
Technologies: Flask, MongoDB, Heroku, Git, Docker, AWS S3
Additional Skills: Fluent in English and Korean, basic proficiency in Japanese and Chinese