

# Kang In Park

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## EDUCATION

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### New York University, Tandon School of Engineering

Bachelor of Science, Major in Computer Science, Minor in Cybersecurity

Honors Scholar

New York, NY

May 2023

Cumulative GPA: 3.6

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Computer Architecture, Offensive Security, Computer Security, Operating Systems, Application Security, Applied Cryptography, Network Security, Software Engineering

## EXPERIENCE

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### 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

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### 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

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### 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

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**Certificates:** CompTIA Security+

**Languages:** Python, SQL, Bash

**Technologies:** Git, Flask, MongoDB, Heroku, AWS S3

**Additional Skills:** Fluent in English and Korean, basic proficiency in Japanese and Chinese