

# Kang In Park

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## EDUCATION

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### New York University, Tandon School of Engineering

Major: B.S Computer Science

Minor: Cybersecurity

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Computer Architecture, Design & Analysis of Algorithms, Offensive Security

New York, NY

May 2023

Present cumulative GPA: 3.5

## 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 back end
- Utilized **PostgreSQL**, **AWS S3**, and **Heroku** to save user data, store media assets, and host the bot

### Game Programming Project - Block Dash

- Created a side-scrolling 2D game using C++
- Implemented vector graphics using **OpenGL** and handled keyboard inputs using **SDL**
- Programmed procedural generation to create new map terrain in real-time, improving replayability

## ACTIVITIES

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### OSIRIS Lab (Offensive Security, Incident Response, and Internet Security Lab)

Lab Member

- Tested challenges for CSAW CTF Finals competition using **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**
- Constantly learning about cybersecurity through weekly Hack Nights and online resources such as HackTheBox, TryHackMe, and CryptoHack

## EXPERIENCE

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### 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 the 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 the 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 relevant work knowledge for a smooth onboarding process

### 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

## SKILLS

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**Certificates:** CompTIA Security+

**Languages:** Python, C++

**Technologies:** PostgreSQL, AWS S3, Heroku, Git, Docker

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