Kang In **Park**

SOFTWARE ENGINEER

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Languages: Python, SQL, Bash **Technologies:** Git, Flask, PostgreSQL, MongoDB, Heroku **Certificates:** CompTIA Security+

Education

New York University, Tandon School of Engineering   *New York, NY*

B.S. IN COMPUTER SCIENCE, MINOR IN CYBERSECURITY   *May 2023*

HONORS SCHOLAR   *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

SecurityScorecard   *New York, NY*

INTERN   *June 2022 - August 2022*

- Implemented 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
- Enhanced network efficiency from 100 network calls to one by developing scheduled batch-logging functionality in Python for Datadog metrics
- Restructured custom NSE scripts with Lua for transitioning into a more reliable vulnerability API

Republic of Korea Air Force   *Chungju, South Korea*

AIRCRAFT MECHANIC   *August 2019 - May 2021*

- Reduced time taken for each technical inspection by 20%, collaborating with lead aircraft mechanics in diagnosing malfunctions within LRU components of the F-16 Fighting Falcon through use of Automatic Test Equipment,
- Accelerated workflow by 50% by automating bi-weekly tasks through use of VBScript and Regex pattern matching in Korean word documents
- Increased efficiency of functional tests by translating aircraft maintenance manuals from English to Korean for mechanics with limited English
- 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 and data structures 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

Twitter Hate Speech Analysis

- Conducted data analysis on 50k Twitter data set related to the Russo-Ukrainian conflict
- Performed data cleaning and analysis using Pandas and Jupyter Notebook and created visualizations using Matplotlib and NetworkX
- Utilized Kaggle and the Perspective API to source data and categorize tweets based on toxicity level

Roommate Finder - Web App

- Delivered a web application for matching users with roommates based on preference questionnaire
- Implemented using Flask for backend, HTML and CSS for frontend, Pytest for test-driven development
- Utilized MongoDB, PythonAnywhere, and Github CI/CD to store user data, host the web app, and autodeploy to production

WillaBot - A Discord Chat Bot

- Delivered a Discord bot used by 5000+ users by utilizing Python and the Discord.py API to interface with 20+ servers
- 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)   *New York, NY*

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
- Identified vulnerabilities and devised exploits using attacks such as SQL injection and Template injection