

SeokHee Chang(Evan)

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Summary

I am passionate about contributing to the optimization of global issues and creating a better future through DL/ML.

Military

2017.01 ~ 2018.12 | Republic of Korea Air Force | Discharged.

- Military Specialty:: Logistics

Education

- 2016.03 ~ 2023.02 | Kangnam University | Industrial Engineering /Software Engineering | Bachelor's degree
- 2023.04 ~ 2023.12 | KISIA | SDEV (S-Developer) | Education Certificate
- 2023.11.13 ~ 2023.12.08 | KISIA | Cloud Security | Education Certificate
- 2023.10.27 ~ 2023.11.16 | KISIA | Malware analysis and technology trends using AI | Education Certificate
- 2023.11.22 ~ 2023.11.24 | KISIA | ICT convergence industrial security human resources training project blockchain field | Education Certificate

Career

Four-Chains(포체인스)

(Goyang-si, Gyeonggi-do, Republic of Korea)

(2021.11 ~ 2023.03)

(소속:개발 2부 사원(Data Analyst) / 개발본부)

Summary

- Developed and implemented functionalities for a Probe Anti-Virus program.
- Conducted research and analysis on malware detection using Machine Learning techniques.
- Collecting Data(Malware/Benign data)
 - Collect Malware /Benign data(By using Crawling)&KISA dataset
 - Double check -> virustotal api-key(python)
 - Data Labeling
- Feature Extraction and Data Analysis

- Feature Extraction
- Data Analysis
 - EDA
 - Correlation analysis
- ML Modeling
 - CNN(malware-> grayscale image(data preprocessing))
 - Malware/Benign file convert grayscale image(byte data -> image)
 - CNN Modeling
 - Tree Model(LightGBM, Catboost, XGBoost, RF(RandomForest))
 - Feature Selection&dimensionality reduction
(Mathematical(Topology) definitions and theorems convert into code&apply)
 - Tree Model Modeling
- Develop Probe Anti-Virus Program
 - functions: Quick scan, detailed scan, smart scan, pc cleaner, quarantine

Skills

- Language : Python, C, C++, Lua, JavaScript, SQL(mysql, postgresql, mongodb), Hive, bash
- Lib : PyQt, Scikit-Learn, Pytorch, Tensorflow, Pandas, Numpy, Django, Flask, PySpark
- Tool : Docker, AWS(s3, ec2, api gateway, lambda, sagemaker, cloudformation, authena), Git, Slack, Discord

Project

Probe Anti-Virus Program

- link : <https://wadiz.onelink.me/gmeA/h9i75ge4>
- Main functions: Quick scan, detailed scan, smart scan, PC cleaner, quarantine

ML-WAF

- link : <https://github.com/Team-Pyree/mlwaf>
- About Project: Using Nginx event-driven/async IO structure ML endpoint REST API call and MySQL DB Insert
Implementation of high-performance firewall through
- Lanaguage : Python, Lua
- framewokr&tool : HTML, Django, Jupyter, Flask, Nginx, AWS(Ec2, Sagemaker, S3, Cloudformation), Mysql, SQLite, Docker

Certifications

- Distribution Management (Level 2)
- Word processor certification
- Microsoft Office Specialist (MOS) Master