Hyeong-Jin Park

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INTERESTS

Security, AI with Deep Learning, Block Chain.

EDUCATION

Chonbuk National University, Korea — Mar 2008 – Aug 2014

- Bachelor of Computer Sicence and Engineering
- Graduated with Outstanding Graduate Award (ranked 1st in project contest and algorithm contest)

SKILLS

Programming/Scripting Languages : (Proficient) C, C++, Java, Python, Bash; Go, Solidity, SQL, Javascript
Frameworks and tools

- Keras, Theano, Tensorflow, Caffe for Deep Learning
- Bootloader, Baseband, TEE (Trusted Environments Execution), Framework, NDK, ART, LLVM for Android
- IDA, Ollydbg, Apktool, Jadx for Reversing
- Burp Suite, Fiddler for Web Hacking
- Fortify, Androguard for Security Analysis
- AFL, honggfuzz For Fuzzing

INDUSTRY EXPERIENCE

Samsung Electronics, Suwon, South Korea — Jul 2014 - Present

Mobile Security Technology Group (Samsung Mobile), Suwon, South Korea — Jan 2016 - Present
Security Research Engineer

Product Security Incident Response Team (PSIRT)

- Operating the official Samsung Mobile Security Rewards Program (also knwon as bug bounty program) rewarding up to $ 200,000 for security vulnerabilities of Samsung Mobile devices and services.
  (https://security.samsungmobile.com/main.smsb).
- Proficient use of Reverse Engineering, Fuzzing and Exploiting technologies to perform security risk assessment for "Kernel, TEE, Framework, Application etc. in all Samsung Mobile devices".

Samsung Electronics Security Expert Research Group

- Share security issues of all Samsung Electronics products such as mobile, TV, and semi-conductors, and discover new security items.

Frontier Research Lab (Samsung Research), Suwon, South Korea — Jul 2014 - Dec 2015
Research Engineer

- Implemented malware detection system on Android devices using deep learning.
- Analyzed large dataset of Android applications to identify and statistically correlate key malware characteristics from dex file, native libraries, and (hidden) scripts or image files.
- Research of AOT (Ahead Of Time comilation) complier technique to convert the Android application to Tizen application.
- Implementation of indoor autonomous mobile robot based on ROS (Robot Operating System).
- Implementation of drone algorithm to follow recorded face by using video-based machine learning.

Samsung Software Membership, Jeonju, South Korea — Jul 2012 - Jul 2014
Software Engineer

- Development and testing of image processing algorithm for gesture recognition (with Samsung Research)
- Implemented diverse projects using various technologies such as image processing, EEG signal analysis, and motor control.

RESEARCH EXPERIENCE	Hyeong-Jin Park. 2018. Behavior-Based Automatic Malware Detection System using Deep Learning. - In the 2018 Samsung Conference (for Samsung researchers only).
PATENTS	Malware detection system using static code analysis and probabilistic model - US16/068263 (2018.07.05) Electronic Apparatus for detecting Malware and Method thereof - KR/10-2016-0072230 (2016.06.10)
EXTRACURRICULAR ACTIVITIES	Sentinel Protocol Cyber Security Expert (https://forum.sentinelprotocol.io/) RSK Ambassador at South Korea (https://www.rsk.co/)