MINGUN PAK

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1253 1/2 36th Place, Los Angeles, CA 90007

EDUCATION

M.Sc. in Computer Science, University of Southern California, Los Angeles, CA

B.Sc. in Computer Science, Inha University, Incheon, South Korea

May 2018

Aug 2015

TECHNICAL SKILLS

SpecialtyProgramming language
Deep Learning, Computer Vision, NLP, Web Tech, Android, iOS, Computer Security
Python(strong), C++, C#, Swift3, Ruby, Java, PHP, JavaScript, HTML5, CSS, Assembly

Database MySQL(strong), PostgreSQL, MongoDB, Oracle 11g, MSSQL

Framework Django(strong), Tensorflow, Caffe, openCV ,Flask, Selenium, jQuery, AngularJS, Bootstrap

Software AWS, Heroku, Docker, Google Analytics, Github, Trello, Source Tree, Slack

WORK EXPERIENCE

Software Developer Intern, Samsung Electronics, Seoul, South Korea

Mar 2014 - Apr 2015

Technical Skills List: Assembly, C, C++, Computer Architecture, System Programming

Designed the 64Bit Multi-Core OS prototype that increases performance by 50% of context switching speed

Research and Development Intern, Ministry of Science, Seoul, South Korea

Jul 2013 - Feb 2014

Technical Skills List: Ruby, Android, Secure Coding, Compiler

- Led as project manager to create the Automatic Secure Coding Verification Tool for Android Apps that detects vulnerable source code by utilizing approximately 100 rules
- Designed the Java Source Code Parser using Ruby

PROJECTS

AlphaKu: Sudoku Solver Application

Jan 2017 - Feb 2017

Technical Skills: Android, Python, Tensorflow, OpenCV, Deep Learning

- Designed the solver that recognizes Sudoku in a given natural picture like a newspaper and then find the solution.
- Improved MNIST date set up to 99.58% accuracy by Deep Learning

ATGA: Auto Tagging Gallery App

Mar 2015 - Jun 2015

Technical Skills: Android, Python, Flask, MySQL, Caffe API, OpenCV, Deep Learning

- · Created the gallery app that automatically detects and tags objects within photographs
- Developed an unique algorithm utilizing the SURF and Union-find algorithm to increase speed of image region detection, the prior step to extracting an image's feature point, which enables the machine learning

PUBLICATIONS

Pak, M. An Analysis on Techniques for Preventing Android Reverse Engineering, KIPS

Apr 2014

TEACHING EXPERIENCE

Fast Campus Co., Seoul, South Korea

Jan 2016 – Apr 2016

· Lecture: Web Programming School - Python, Linux, Network, Django, Data Structure

National Cyber Command of National Defense, Seoul, South Korea

Mar 2014 – Apr 2014

Lecture: Kali Linux Penetration Testing

Korea South-Eastern Power Co., Seoul, South Korea Dec 2013 – Dec 2013

Lecture: System Hacking, Reverse Engineering, Web and Network Hacking, PenTesting

AWARDS

2nd place, Programming Contest, Inha University	Sep 2014
2nd place, White Hat Hacking Contest, Samsung Electronics	Jun 2014
1st place, Academy Hackerton, Inha University	Dec 2013
Finalist, 10th KISA HDCON(Hacking Defence Contest)	Nov 2013
27th place out of 1540 teams(worldwide), Codegate CTF, MSIP, South Korea	May 2013
2nd place, H.U.S.T Hacking Festival, Hongik University	Dec 2012