

## MINGUN PAK

Address: 1156 36th Place, Los Angeles, CA 90007  
Email: jpak1021@gmail.com Phone: 213-999-1434

### 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

<b>Specialty</b>	NLP(strong), Web Tech(strong), Machine Learning, Android, iOS, Computer Security
<b>Programming language</b>	Python(strong), C++, C#, Swift3, Ruby, Java, PHP, JavaScript, HTML5, CSS
<b>Database</b>	MySQL(strong), PostgreSQL, MongoDB, MSSQL
<b>Framework</b>	Django, Tensorflow, Keras, PyTorch, Caffe, openCV, Flask, Selenium, jQuery, AngularJS
<b>Software</b>	AWS, Heroku, Docker, Google Analytics, Github, Trello, Source Tree, Slack

### WORK EXPERIENCE

**Research and Development Intern, Gridspace, Los Angeles, California**

May 2017 – July 2017

Technical Skills List: **Python, Keras, Pytorch, Natural Language Processing**

- Designed Sentiment analyzer which has 91.5% accuracy using hybrid CNN+LSTM model with bi-gram
- Developed Anomaly detector based on call log, which uses GRU+Attention model with gradient-clipping & coverage

**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**

- Created 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

### PROJECT EXPERIENCE

**Web and iOS Project**

Jan 2017 – Apr 2017

Technical Skills: **Swift3, Javascript, PHP, jQuery, Bootstrap, AngularJS, Google Cloud, FB Graph API, Maps API**

- Developed a responsive webpage which allows us to search for our friends through all the famous SNS
- Created iOS app which exactly acts like the webpage based on Swift3

**Android and Machine Learning Project**

Mar 2015 – Jun 2015

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

- Created the gallery app that automatically detects and tags objects within photographs
- Developed a unique algorithm using the SURF and Union-find algorithm to increase speed of image region detection.

### 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, Github, Web Scraping**

National Cyber Command of National Defense, Seoul, South Korea

Mar 2014 – Apr 2014

- Lecture: **Kali Linux Penetration Testing**

Inha University, Incheon, South Korea

Jan 2013 – Aug 2013

- Lecture: **Web hacking and security**

### AWARDS

2nd place, Programming Contest, Inha University, South Korea

Sep 2014

2nd place, White Hat Hacking Contest, Samsung Electronics, South Korea

Jun 2014

1st place, Academy Hackerton, Inha University, South Korea

Dec 2013

Finalist, 10th KISA HDCON(Hacking Defence Contest), South Korea

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, South Korea

Dec 2012