MINGUN PAK

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EDUCATION

M.Sc. in Computer Science, University of Southern California, Los Angeles, CA	*Dec 2018*
B.Sc. in Computer Science, Inha University, Incheon, South Korea	*Aug 2015*

TECHNICAL SKILLS

Specialty	Natural Language Processing, Machine Learning, Web Tech, Pen Testing, Android, iOS
Programming language	Python, Java , C++, C#, R, Swift3, Ruby, PHP, JavaScript, HTML5, CSS
Database	MySQL, PostgreSQL, MongoDB
Framework	Flask, Django, Tensorflow, Keras, PyTorch, Caffe, NLTK, Hadoop, Spark, AngularJS
Software	AWS, Heroku, Docker, Google Cloud, Github, Trello, Source Tree, Slack

WORK EXPERIENCE

Software Development Intern, DreamTek Industries - Los Angeles, California   *Sept 2017 – Present*
Technical Skills List: **Python, NLP, NTLK, Flask, Flask-RESTPlus, MongoDB**
- Implemented back-end features to optimize financial services selection and created a true banking API
- Contributed to POS and BIO tagger using CRF and product matching & ranking algorithms

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 Development 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
- Handpicked member for core development team that focused on multitasking & multithreading, device drivers, code reviews, and end-to-end integration

Research and Development Intern, Ministry of Science - Seoul, South Korea   *Jul 2013 – Feb 2014*
Technical Skills List: **Ruby**, **Android, Java, 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.

TEACHING EXPERIENCE

Lecturer, Fast Campus Co. - Seoul, South Korea   *Jan 2016 – Apr 2016*
- Lecture: Web Programming School - **Python, Linux, Network, Django, Data Structure, Github, Web Scraping**

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*