

# Kyle Siegel

EXPERIENCED ANALYST · DATA SCIENTIST

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*Data analyst and self-taught data scientist with experience at SpaceX writing software to aid the Dynamics team in quick and reliable analysis.*

## Summary

NOT SURE IF I SHOULD HAVE A SUMMARY. Data analyst and self-taught data scientist with experience at SpaceX writing software to aid the Dynamics team in quick and reliable analysis.

## Education

### Harvey Mudd College

B.S. IN ENGINEERING, GPA:3.62

- Dean's List: Spring 2011, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2014, Spring 2014.
- Tau Beta Pi Engineering Honor Society- Awarded to top 20% of engineers.

Claremont, CA

Fall 2010 - Spring 2014

## Experience

### R.O.K Cyber Command, MND

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE)

- Implemented a military cooperation system which is web based real time messenger in Scala on Lift.
- Improved functionality on military command and control system for incident response with Java Servlet.
- Lead engineer on agent-less backtracking system that can discover client device's fingerprint(including public and private IP) independently of the Proxy, VPN and NAT.

Seoul, S.Korea

Aug. 2014 - Exp. Apr. 2016

### NEXON

GAME DEVELOPER INTERN AT GLOBAL INTERNSHIP PROGRAM

- Developed in Cocos2d-x an action puzzle game(Dragon Buster) targeting U.S. market. Implemented API server which is communicating with game client and In-App Store, along with two other team members who wrote the game logic, designed game graphics.
- Won the 2nd prize in final evaluation.

Seoul, S.Korea & LA, U.S.A

Jan. 2013 - Feb. 2013

### Undergraduate Research, Computer Vision Lab(Prof. Bohyung Han)

RESEARCHER FOR <DETECTING VIDEO'S TORRENTS USING IMAGE SIMILARITY ALGORITHMS>

- Researched means of retrieving a corresponding video based on image contents using image similarity algorithm.
- Implemented prototype that users can obtain torrent magnet links of corresponding video relevant to an image on web site.

Pohang, S.Korea

Sep. 2012 - Feb. 2013

### Software Maestro (funded by Korea Ministry of Knowledge and Economy)

SOFTWARE ENGINEER TRAINEE

- Performed research memory management strategies of OS and implemented in Python an interactive simulator for Linux kernel memory management.

Seoul, S.Korea

Jul. 2012 - Jun. 2013

### ShitOne Corp. (Start-up company)

SOFTWARE ENGINEER

- Developed a proxy drive smartphone application which connects proxy driver and customer. Implemented overall Android application logic and wrote API server for community service, along with lead engineer who designed bidding protocol on raw socket and implemented API server for bidding.

Seoul, S.Korea

Dec. 2011 - Feb. 2012

### SAMSUNG Electronics

FREELANCE PENETRATION TESTER

- Conducted penetration testing on SAMSUNG KNOX, which is solution for enterprise mobile security.
- Conducted penetration testing on SAMSUNG Smart TV.

S.Korea

Sep. 2013, Mar. 2011 - Oct. 2011

## Extracurricular Activity

### PoApper (Developers' Network of POSTECH)

CORE MEMBER & PRESIDENT AT 2013

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

Pohang, S.Korea

Jun. 2010 - PRESENT

### PLUS (Laboratory for UNIX Security in POSTECH)

MEMBER

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.

Pohang, S.Korea

Sep. 2010 - Oct. 2011

### MSSA (Management Strategy Club of POSTECH)

MEMBER

- Gained knowledge about several business field like Management, Strategy, Financial and marketing from group study.
- Gained expertise in business strategy areas and insight for various industry from weekly industry analysis session.

Pohang, S.Korea

Sep. 2013 - PRESENT

## Honors & Awards

### INTERNATIONAL

2014	<b>Finalist</b> , DEFCON 22nd CTF Hacking Competition World Final	Las Vegas, U.S.A
2013	<b>Finalist</b> , DEFCON 21st CTF Hacking Competition World Final	Las Vegas, U.S.A
2011	<b>Finalist</b> , DEFCON 19th CTF Hacking Competition World Final	Las Vegas, U.S.A
2012	<b>6th Place</b> , SECUINSIDE Hacking Competition World Final	Seoul, S.Korea

## DOMESTIC

2015	<b>3rd Place</b> , WITHCON Hacking Competition Final	Seoul, S.Korea
2013	<b>Silver Prize</b> , KISA HDCON Hacking Competition Final	Seoul, S.Korea

## Presentation

### 6th CodeEngn (Reverse Engineering Conference)

Seoul, S.Korea

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

Jul. 2012

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

## Writing

### A Guide for Developers in Start-up

Facebook Page

FOUNDER & WRITER

Jan. 2015 - PRESENT

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

### AhnLab

S.Korea

UNDERGRADUATE STUDENT REPORTER

Oct. 2012 - Jul. 2013

- Drafted reports about IT trends and Security issues on AhnLab Company magazine.

## Program Committees

2013	<b>Organizer &amp; Co-director</b> , 1st POSTECH Hackathon	S.Korea
2012	<b>Staff &amp; Problem Writer</b> , JFF(Just for Fun) Hacking Competition	S.Korea