

Jaebaek Seo

SOFTWARE ENGINEER · SYSTEMS SECURITY EXPERT

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Objective

Jaebaek is a Ph.D. student in the dept. of computer science at KAIST. He receives B.S. and M.S. degree from the dept. of computer science at KAIST. He has strong skills on design and implementation of security systems based on operating system, compiler.

Education

KAIST(Korea Advanced Institute of Science and Technology)

Daejeon, S.Korea

B.S. IN COMPUTER SCIENCE

Mar. 2006 - Aug. 2010

M.S. in Computer Science

KAIST(Korea Advanced Institute of Science and Technology) Daejeon, S.Korea Mar. 2011 - Feb. 2013

Ph.D. in Computer Science KAIST(Korea Advanced Institute of Science and Technology) Daejeon, S.Korea Mar. 2013 - PRESENT

- Got a KFAS (Korea Foundation for Advanced Studies) Scholarship.

Experience

R.O.K Cyber Command, MND

Seoul, S.Korea

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE)

Aug. 2014 - Exp. Apr. 2016

- 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.

NEXON

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

GAME DEVELOPER INTERN AT GLOBAL INTERNSHIP PROGRAM

Jan. 2013 - Feb. 2013

- 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.

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

Pohang, S.Korea

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

Sep. 2012 - Feb. 2013

- 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.

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

Seoul, S.Korea

SOFTWARE ENGINEER TRAINEE

Jul. 2012 - Jun. 2013

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

ShitOne Corp. (Start-up company)

Seoul, S.Korea

SOFTWARE ENGINEER

Dec. 2011 - Feb. 2012

- 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.

SAMSUNG Electronics

S.Korea

FREELANCE PENETRATION TESTER

Sep. 2013, Mar. 2011 - Oct. 2011

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

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

Extracurricular Activity

PoApper (Developers' Network of POSTECH)

CORE MEMBER & PRESIDENT AT 2013

Pohang, S.Korea

Jun. 2010 - PRESENT

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

PLUS (Laboratory for UNIX Security in POSTECH)

MEMBER

Pohang, S.Korea

Sep. 2010 - Oct. 2011

- 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.

MSSA (Management Strategy Club of POSTECH)

MEMBER

Pohang, S.Korea

Sep. 2013 - PRESENT

- 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.

Honors & Awards

INTERNATIONAL

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| 2014 | Finalist , DEFCON 22nd CTF Hacking Competition World Final |
| 2013 | Finalist , DEFCON 21st CTF Hacking Competition World Final |
| 2011 | Finalist , DEFCON 19th CTF Hacking Competition World Final |
| 2012 | 6th Place , SECUINSIDE Hacking Competition World Final |

Las Vegas, U.S.A

Las Vegas, U.S.A

Las Vegas, U.S.A

Seoul, S.Korea

DOMESTIC

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| 2015 | 3rd Place , WITHCON Hacking Competition Final |
| 2013 | Silver Prize , KISA HDCON Hacking Competition Final |

Seoul, S.Korea

Seoul, S.Korea