

# Byungjin Park

Software Architect · Security Expert

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*"Be the change that you want to see in the world."*

## Summary

Current Site Reliability Engineer at start-up company Kasa. 7+ years experience specializing in the backend development, infrastructure automation, and computer hacking/security. Super nerd who loves Vim, Linux and OS X and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

## Experience

### Omnious. Co., Ltd.

Seoul, S.Korea

Software Architect

Jun. 2017 - May 2018

- Provisioned an easily manageable hybrid infrastructure(Amazon AWS + On-premise) utilizing IaC(Infrastructure as Code) tools like Ansible, Packer and Terraform.
- Built fully automated CI/CD pipelines on CircleCI for containerized applications using Docker, AWS ECR and Rancher.
- Designed an overall service architecture and pipelines of the Machine Learning based Fashion Tagging API SaaS product with the micro-services architecture.
- Implemented several API microservices in Node.js Koa and in the serverless AWS Lambda functions.
- Deployed a centralized logging environment(ELK, Filebeat, CloudWatch, S3) which gather log data from docker containers and AWS resources.
- Deployed a centralized monitoring environment(Grafana, InfluxDB, CollectD) which gather system metrics as well as docker run-time metrics.

### PLAT Corp.

Seoul, S.Korea

Co-founder & Software Engineer

Jan. 2016 - Jun. 2017

- Implemented RESTful API server for car rental booking application(CARPLAT in Google Play).
- Built and deployed overall service infrastructure utilizing Docker container, CircleCI, and several AWS stack(Including EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in Korea.

### Undergraduate Research, Machine Learning Lab(Prof. Seungjin Choi)

Pohang, S.Korea

Researcher

Mar. 2016 - Exp. Jun. 2017

- Researched classification algorithms(SVM, CNN) to improve accuracy of human exercise recognition with wearable device.
- Developed two TIZEN applications to collect sample data set and to recognize user exercise on SAMSUNG Gear S.

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

Seoul, S.Korea

Software Engineer & Security Researcher (Compulsory Military Service)

Aug. 2014 - Apr. 2016

- 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.
- Implemented a distributed web stress test tool with high anonymity.
- Implemented a military cooperation system which is web based real time messenger in Scala on Lift.

### 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 and 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.

Software Engineer

Seoul, S.Korea

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

Freelance Penetration Tester

S.Korea

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.

## Honors and Awards

2018 **Martin C. And Margaret M. Lee Prize**, Best Performance in Macroeconomics Sequence

Chicago, USA

2018 **Neubauer Fellowship**, Graduate Fellowship

Chicago, USA

2012 **First Prize in History**, French National History Competition (Concours General)

Paris, France

## Presentation

### DevFest Seoul by Google Developer Group Korea

Seoul, S.Korea

Presenter for <Hosting Web Application for Free utilizing GitHub, Netlify and CloudFlare>

Nov. 2017

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

### 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

### 6th Hacking Camp - S.Korea

S.Korea

Presenter for <Metasploit 101>

Sep. 2012

- Introduced basic procedure for penetration testing and how to use Metasploit

## 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

2016 **Problem Writer**, 2016 CODEGATE Hacking Competition World Final

S.Korea

2013 **Organizer & Co-director**, 1st POSTECH Hackathon

S.Korea

2012 **Staff**, 7th Hacking Camp

S.Korea

2012 **Problem Writer**, 1st Hoseo University Teenager Hacking Competition

S.Korea

2012 **Staff & Problem Writer**, JFF(Just for Fun) Hacking Competition

S.Korea

## Education

### University of Chicago

Chicago, USA

Ph.D. in Economics

2018 -

Advisors: Fernando Alvarez, Mikhail Golosov, Lars Peter Hansen

### University of Chicago

Chicago, USA

M.A. in Economics

2018 - 2020

## Paris School of Economics

M.Sc. Analysis and Policy in Economics

Summa cum laude

Paris, France

2016 - 2018

## École Normale Supérieure Ulm

B.Sc. in Physics

Cum laude

Paris, France

2015 - 2016

## Extracurricular Activity

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### B10S (B1t On the Security, Underground hacker team)

S.Korea

Core Member

Nov. 2011 - PRESENT

- Gained expertise in penetration testing areas, especially targeted on web application and software.
- Participated on a lot of hacking competition and won a good award.
- Held several hacking competitions non-profit, just for fun.

### WiseGuys (Hacking & Security research group)

S.Korea

Member

Jun. 2012 - PRESENT

- Gained expertise in hardware hacking areas from penetration testing on several devices including wireless router, smartphone, CCTV and set-top box.
- Trained wannabe hacker about hacking technique from basic to advanced and ethics for white hackers by hosting annual Hacking Camp.

### PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

Core Member & President at 2013

Jun. 2010 - Jun. 2017

- 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)

Pohang, S.Korea

Member

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)

Pohang, S.Korea

Member

Sep. 2013 - Jun. 2017

- 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.