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 automa- tion, 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.

# Work Experience

**Omnious. Co., Ltd.** *Seoul, S.Korea*

SOFTWARE ARCHITECT *Jun. 2017 - May. 2018*

* Provisioned an easily managable 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.

**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.

**ShitOne Corp.** *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.

# Honors & Awards

## INTERNATIONAL

2018 **Finalist**, DEFCON 26th CTF Hacking Competition World Final *Las Vegas, U.S.A*

2017 **Finalist**, DEFCON 25th CTF Hacking Competition World Final *Las Vegas, U.S.A*

2014 **Finalist**, DEFCON 22nd CTF Hacking Competition World Final *Las Vegas, U.S.A*

2013 **Finalist**, DEFCON 21st CTF Hacking Competition World Final *Las Vegas, U.S.A*

2011 **Finalist**, DEFCON 19th CTF Hacking Competition World Final *Las Vegas, U.S.A*

## DOMESTIC

2015 **3rd Place**, WITHCON Hacking Competition Final *Seoul, S.Korea*

2017 **Silver Prize**, KISA HDCON Hacking Competition Final *Seoul, S.Korea*

2013 **Silver Prize**, KISA HDCON Hacking Competition Final *Seoul, S.Korea*

# 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

# 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.

# Program Committees

2016 **Problem Writer**, 2016 CODEGATE Hacking Competition World Final *S.Korea*

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

# Education

**POSTECH(Pohang University of Science and Technology)** *Pohang, S.Korea*

B.S. IN COMPUTER SCIENCE AND ENGINEERING *Mar. 2010 - Aug. 2017*

* Got a Chun Shin-Il Scholarship which is given to promising students in CSE Dept.

# Extracurricular Activity

**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.