

Claud D. Park

SOFTWARE ARCHITECT · SECURITY EXPERT

42-8, Bangbae-ro 15-gil, Seocho-gu, Seoul, 00681, Rep. of KOREA

☎ (+82) 10-9030-1843 | ✉ posquit0.bj@gmail.com | 🌐 www.posquit0.com | 📷 posquit0 | 📱 posquit0

“Be the change that you want to see in the world.”

Education

POSTECH(Pohang University of Science and Technology)

B.S. in Computer Science and Engineering

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

Pohang, S.Korea

Mar. 2010 - Aug. 2017

Skills

DevOps AWS, Docker, Kubernetes, Rancher, Vagrant, Packer, Terraform, Jenkins, CircleCI

Back-end Koa, Express, Django, REST API

Front-end Hugo, Redux, React, HTML5, LESS, SASS

Programming Node.js, Python, JAVA, OCaml, LaTeX

Languages Korean, English, Japanese

Experience

Omnious. Co., Ltd.

Software Architect

- 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.

Seoul, S.Korea

Jun. 2017 - May. 2018

PLAT Corp.

Co-founder & Software Engineer

- 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.

Seoul, S.Korea

Jan. 2016 - Jun. 2017

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

Researcher

- 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.

Pohang, S.Korea

Mar. 2016 - Exp. Jun. 2017

R.O.K Cyber Command, MND

Software Engineer & Security Researcher (Compulsory Military Service)

- 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.

Seoul, S.Korea

Aug. 2014 - 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 and 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)

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.

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.
- KNOX(Solution for Enterprise Mobile Security) Penetration Testing
- Smart TV Penetration Testing

Sep. 2013

Mar. 2011 - Oct. 2011

racurricular Activity

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.

ors & Awards

INTERNATIONAL

2018 **Finalist**, DEFCON 26th CTF Hacking Competition World Final
 2017 **Finalist**, DEFCON 25th CTF Hacking Competition World Final
 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
Las Vegas, U.S.A
Las Vegas, U.S.A
Seoul, S.Korea

DOMESTIC

2015 **3rd Place**, WITHCON Hacking Competition Final
 2017 **Silver Prize**, KISA HDCON Hacking Competition Final
 2013 **Silver Prize**, KISA HDCON Hacking Competition Final
 2013 **2nd Award**, HUST Hacking Festival
 2010 **3rd Award**, HUST Hacking Festival
 2012 **3rd Award**, Holyshield 3rd Hacking Festival
 2011 **2nd Award**, Holyshield 3rd Hacking Festival
 2011 **5th Place**, PADOCON Hacking Competition Final

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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

ting

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.

gram Committees

2016 **Problem Writer**, 2016 CODEGATE Hacking Competition World Final
 2013 **Organizer & Co-director**, 1st POSTECH Hackathon
 2012 **Staff**, 7th Hacking Camp
 2012 **Problem Writer**, 1st Hoseo University Teenager Hacking Competition
 2012 **Staff & Problem Writer**, JFF(Just for Fun) Hacking Competition

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