

Claud D. Park

SOFTWARE ARCHITECT · SECURITY EXPERT

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

Education

B.S. in Computer Science and Engineering

POSTECH(POHANG UNIVERSITY OF SCIENCE AND TECHNOLOGY)

Pohang, S.Korea

Mar. 2010 - Aug. 2017

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

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

Software Architect

OMNIOUS. Co., LTD.

Seoul, S.Korea

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.

Co-founder & Software Engineer

PLAT CORP.

Seoul, S.Korea

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.

Researcher

UNDERGRADUATE RESEARCH, MACHINE LEARNING LAB(Prof. Seungjin Choi)

Pohang, S.Korea

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.

Software Engineer & Security Researcher (Compulsory Military Service)

R.O.K CYBER COMMAND, MND

Seoul, S.Korea

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.

Game Developer Intern at Global Internship Program

NEXON

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

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.

Researcher for <Detecting video's torrents using image similarity algorithms>

UNDERGRADUATE RESEARCH, COMPUTER VISION LAB(Prof. BOHYUNG HAN)

Pohang, S.Korea

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 Engineer Trainee

SOFTWARE MAESTRO (FUNDED BY KOREA MINISTRY OF KNOWLEDGE AND ECONOMY)

Seoul, S.Korea

Jul. 2012 - Jun. 2013

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

Software Engineer

SHITONE CORP.

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.

Freelance Penetration Tester

SAMSUNG ELECTRONICS

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.

Extracurricular Activity

Core Member

B10S (BIT ON THE SECURITY, UNDERGROUND HACKER TEAM)

S.Korea

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.

Member

WISEGUYS (HACKING & SECURITY RESEARCH GROUP)

S.Korea

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.

Core Member & President at 2013

POAPPER (DEVELOPERS' NETWORK OF POSTECH)

Pohang, S.Korea

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.

Member

PLUS (LABORATORY FOR UNIX SECURITY IN POSTECH)

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.

Member

MSSA (MANAGEMENT STRATEGY CLUB OF POSTECH)

Pohang, S.Korea

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.

Honors & Awards

INTERNATIONAL

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|------|---|------------------|
| 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 |
| 2012 | 6th Place , SECUINSIDE Hacking Competition World Final | Seoul, S.Korea |

DOMESTIC

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| 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 |
| 2013 | 2nd Award , HUST Hacking Festival | S.Korea |
| 2010 | 3rd Award , HUST Hacking Festival | S.Korea |
| 2012 | 3rd Award , Holyshield 3rd Hacking Festival | S.Korea |
| 2011 | 2nd Award , Holyshield 3rd Hacking Festival | S.Korea |
| 2011 | 5th Place , PADOCON Hacking Competition Final | Seoul, S.Korea |

Presentation

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

Seoul, S.Korea

DEVFEST SEOUL BY GOOGLE DEVELOPER GROUP KOREA

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.

Presenter for <DEFCON 20th : The way to go to Las Vegas>

Seoul, S.Korea

6TH CODEENG (REVERSE ENGINEERING CONFERENCE)

Jul. 2012

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

Presenter for <Metasploit 101>

S.Korea

6TH HACKING CAMP - S.KOREA

Sep. 2012

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

Writing

Founder & Writer

Facebook Page

A GUIDE FOR DEVELOPERS IN START-UP

Jan. 2015 - PRESENT

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

Undergraduate Student Reporter

S.Korea

AHNLAB

Oct. 2012 - Jul. 2013

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

Program Committees

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| 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 |