

#### DEVOPS ENGINEER · SOFTWARE PROGRAMMER

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

## Education

ASSOCIATES OF SCIENCE

#### **Tallahassee Community College**

Tallahassee, FL

Jan 2015 - Jan 2016

Graduated honors with 4 0 GPA

### 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 Languages** C/C++, C# (.NET), Python, Rust, Shell Languages

Languages Korean, English, Japanese

# 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 CircleCl 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

Mar. 2016 - Exp. Jun. 2017

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.

#### 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.

### GAME DEVELOPER INTERN AT GLOBAL INTERNSHIP PROGRAM

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.

#### **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 Jul. 2012 - Jun. 2013

SOFTWARE ENGINEER TRAINEE

• 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.