

# Feng Yuan

Software Architect

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

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

## Education

**POSTECH (Pohang University of Science and Technology)**

B.S. IN COMPUTER SCIENCE AND ENGINEERING

*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

**Omnious. Co., Ltd.**

SOFTWARE ARCHITECT

*Seoul, S.Korea*

*Jun. 2017 - May. 2018*

- » 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.**

CO-FOUNDER & SOFTWARE ENGINEER 

*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.

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


RESEARCHER 

*Pohang, S.Korea*

*Mar. 2016 - 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

SOFTWARE ENGINEER & SECURITY RESEARCHER (COMPULSORY MILITARY SERVICE) 

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.

## 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.

## Publications

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- [1] **F. Yuan**, L. Yao, and B. Benatallah, "Adversarial Collaborative Neural Network for Robust Recommendation," in *Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'19)* (Paris, France), pp.1065–1068, 2019.
- [2] **F. Yuan**, L. Yao, and B. Benatallah, "DARec: Deep Domain Adaptation for Cross-Domain Recommendation via Transferring Rating Patterns," in *Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI'19)* (Macao, China), pp.4227–4233, 2019.
- [3] **F. Yuan**, L. Yao, and B. Benatallah, "Adversarial Collaborative Auto-encoder for Top-N Recommendation," in *Proceedings of 2019 International Joint Conference on Neural Networks* (Budapest, Hungary), pp.1-8, 2019.
- [4] **F. Yuan**, D. Che, and W. Shieh, "Receiver bandwidth effects on complex modulation and detection using directly modulated lasers," *Optics Letters*, vol.41, no.9, pp.2041–2044, 2016.
- [5] **F. Yuan**, D. Che, and W. Shieh, "Characterization of thermal frequency modulation of a DFB laser using digital coherent detection," in *Proceedings Optical Fiber Communication Conference* (Anaheim, CA, United States), pp.W2A.25, 2016.
- [6] X. Zhang, L. Yao and **F. Yuan**, "Adversarial Variational Embedding for Robust Semi-supervised Learning," in *Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD'19)* (Anchorage, AK, USA), pp.139–147, 2019.