

R&D ENGINNER

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Education

Carnegie Mellon University

Pittsburgh, PA

M.S. IN MECHANICAL ENGINEERING

Aug. 2014 - May. 2016

- Graduate research assistant, Visual Design and Engineering Lab
- Teaching assistant, Artificial Intelligent and Machine Learning

Shanghai Jiao Tong University

Shanghai, China

B.S. IN MECHANICAL ENGINEERING

Sep. 2010 - June. 2014

- Outstanding graduate of Shanghai Jiao Tong University
- Full NTU exchange scholarship from Singapore Temasek Foundation

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.

SAMSUNG Electronics S.Korea

FREELANCE PENETRATION TESTER

• Conducted penetration testing on SAMSUNG KNOX, which is solution for enterprise mobile security.

Sep. 2013, Mar. 2011 - Oct. 2011

· Conducted penetration testing on SAMSUNG Smart TV.

Skills

DevOps Linux, Windows, Multi threading, Meta programming, Docker, GDB, Vagrant, AWS

Framework Qt, Google Testing, Visual Studio, Spack, Ansys APDL, Meshlab **Software** Meshlab, Ansys WorkBench, Ansys APDL, Solid works, Tetgen

Programming C++, CMake, Python, Git, Bash, LaTeX, Java, Fortran