JIE-REN (JARRON) SHIH

jarronshih@gmail.com

As a 7-year experience developer, infrastructure builder, and security consultant, Jie-Ren Shih is experienced in building secure, scalability, and high availability enterprise product. With experience of hosting container-based and serverless web service on AWS, he is an expert in DevOps process from developing, testing, opertaion, and monitoring modern web service. Jie-Ren is also familiar with cloud related technologies including AWS, kubernetes, docker, and serverless architecture.

SKILLS

Programing	Python, Javascript, C/C++, HTML/CSS,
DevOps	Docker, Jenkins, CI/CD, Monitor/Alert, Unittest,
Cloud Skills	AWS, ECS, Kubernetes, Docker Swarm, SaaS sytem design, Scalable sytem design,
Linux System	Boot process, Encryption driver, Network programming,

EMPLOYMENT

Senior Software Engineer, Roblox

2019-10 — Present

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Software Engineer, Google

2019-01 — 2019-09

Improve user and partner trust in Google and provide privacy aware infrastructure to serve Google Ads.
- Privacy aware infrastructure for online serving, offline pipeline, and privacy policy validation.
- Awarded 2 Spot Bonus in 2019Q2 and 2019Q3.

Staff Software Developer, Trend Micro

2017-01 — 2019-01

Design and implement SaaS service running in cloud platform with container orchestration. Targeting for automatically CI/CD and high test coverage.
- As Full Cycle Developers doing design, develop and operate *container-based services* from company data center to AWS for SaaS.
- Build up operation, monitor alert and dashboard report using automated script from scratch.
- Introduce *asynchronous* on Python to enhance process and I/O usage with 60% improvement.
- *Legacy code remodeled*: Python 2 to 3, built up unittest and integration test from scratch (0% to over 90%).
- Separate data streaming part from monolithic application to embrace *serviceless framework*.

Senior Software Developer, Trend Micro

2015-01 — 2016-12

In network defense group, responsible for CI/CD, network traffic parsing and hosting a Sandbox SaaS service.
- Introduce *CI/CD* best practice to the product, as the standard of the following project.
- Enhance SaaS service to support multi-tenancy customers sharing resource in the cloud to reduce cost.
- Parsing network traffic in packet level, work as *data engineer* in network analysis product.

Software Developer, Trend Micro

2012-09 — 2014-12

In Cloud Storage Encryption Product Team, responsible for development boot device encryption feature and Linux software agents on cloud service platform.
- Implement boot disk encryption feature to prevent boot data leakage on Windows and variant Linux distributions, including Ubunto, CentOS, RHEL, AmazonLinux and SUSE.
- Design software on major cloud service providers including Amazon EC2, Microsoft Azure and HP-Cloud.
- Awarded 2013 Q2 Trend Engineer of Quarter.

EDUCATION

National Taiwan University
Foundation of Cryptography, Artificial Intelligence, Parallel and Distribution Computing,   2010-09 — 2012-07

National Taiwan University
First Prize in NTUEE Undergraduate Outstanding Project.   2006-09 — 2010-07

WRITING

[Patent] Root Volume Encryption Mechanism in Para-virtualized Virtual Machine, Trend Micro
Achieve root volume encryption in a para-virtualized virtual machine   2015

MIFARE Classic: Practical Attacks and Defenses, Chinese Cryptology and Information Security Association
2013

Securing M2M with Post-quantum Public-key Cryptography, Emerging and Selected Topics in Circuits and Systems / IEEE Journal
2013

A practical experience with RFID security, Mobile Data Management: Systems, Services and Middleware, 2009 / IEEE
2009

RECOGNITION

Certified ScrumMaster, Scrum Alliance
2015

2013 Q2 Engineer of Quarter, Trend Micro
2013

INTERESTS

Contract Bridge
Current

Board Game
Current