

# Siou-Jhih Guo

SITE RELIABILITY ENGINEER

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## Education

### TKU (Tamkung University)

New Taipei City, Taiwan

M.ENG. IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

Jan. 2017 - Jan. 2019

- Master Thesis: Let Machine Read Candlestick Charts Like Human Beings - Forecast trend of stock/future price by constructing deep learning based system using Convolutional Neural Network(CNN) and Recurrent Neural Network(RNN) to analyze candlestick charts.
- Developed Spark Cluster Constructor to quickly construct spark cluster in container on Web-GUI for purpose of teaching. Based on Django 1.11, Docker-swarm, Docker-compose and Docker-API.
- Constructed Hadoop cluster for purpose of teaching based on HDP(Hortonworks Data Platform). Deployment and management were based on Ansible Playbooks

### TKU (Tamkung University)

New Taipei City, Taiwan

B.ENG. IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

Sep. 2012 - Jun. 2016

- Graduation Project : VoIP over SDN(Software Defined Network) - A project to demonstrate flow-control ability of SDN which could improve performance of network-sensitive applications such as VoIP. I constructed network infrastructure by Floodlight and OpenvSwitch 1.6, based on OpenFlow 1.3.
- Constructed OpenStack (Kilo) for private cloud of Department of CSIE - I constructed Nova(computing), Glance(image), Horizon(dashboard) and Keystone(identity). Network solution was Openstack Legacy Network based.

## Work Experience

### Amazon Web Service

Aug. 2019 - Present

CLOUD SUPPORT ENGINEER

Taipei, Taiwan

- Being responsible for helping customers solve questions about container and deployment related AWS services, including: Amazon Elastic Container Service(Amazon ECS), Amazon Elastic Kubernetes Service (Amazon EKS), AWS App Mesh(AWS hosted Envoy control plane), AWS Code-series services(AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy, AWS CodePipeline), AWS Infrastructure as code services(AWS CloudFormation, AWS CDK), AWS X-Ray(AWS hosted tracing service) and AWS Batch.
- Providing wide range support skills to assist customers.
  - Providing general guidance about a service's feature or use case. Sometime, providing prototype or writing sample code for customers is required.
  - Tracking issue and providing workaround/solutions when the problem which customer encounter was caused by AWS services or infrastructure. Sometimes, I also helped AWS internal team trace services' or tools' source code.
  - Under some circumstances, problems were caused by network connectivity issue, OS performance issue, or open source projects' source code/configuration. Having wide range of different troubleshooting skills and knowledge was required.
  - Great communication skill to cooperate with customers to figure out real problems and most suitable solutions for them.

### Bo-Ning Tech. Corp.

Feb. 2017 - Aug. 2019

DEVELOPMENT OPERATOR

Hsinchu, Taiwan

- I worked on containerizing services for easier deploying and testing. Besides, I also constructed Drone and GitLab based CI/CD pipeline to improve developing and releasing efficiency. It saved developers 50% on handling releasing applications.
- I constructed EFK based monitoring solution for services. It reduced 60% time for developers to address issues and decreased 80% service down time.
- Solutions and applications were hosted on GCP and Docker Swarm cluster managed by me.

### IChen Corp.

Taipei, Taiwan

SOFTWARE ENGINEER

Sep. 2015 - Feb. 2017

- I constructed VoIP server for intercom system of parking lots which was based on FreeSwitch 1.6. And I developed VoIP client on Raspberry Pi in Python and C-Language. The system replaced phone based reported solution and saved 60% costs.
- I designed and developed a self-service system for parking lots to allow customers parking vehicles and paying by license plates without human parking officers, and a self-service system for restaurants to allow customers ordering and paying without human receptionist. It reduced users and parking lot managers/clerks 60% of time on paying and verifying. Physical devices were RS-232 based, and controlling logic and communication were HTTP based.
- I constructed and managed infrastructures(GCP and OpenVPN) and CD-chain(GitLab and Ansible based) for account and CRM(Customer Relation Management) server for self-serve system for parking lots and restaurants.

## Hallblazzar : Developer's Journal

FOUNDER & WRITER

- Record progress and solutions of encountered problems while developing projects.
- Impressions and notes of newly learned knowledge and technologies.

Medium

Mar. 2018 - PRESENT

## Predicting the price movement from candlestick charts: a CNN-based approach

CHIH-CHIEH HUNG, YING-JU CHEN, SIOU JHIH GUO, FU-CHUN HSU

- International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC), Vol. 34

IJAHUC

2020

## Deep Candlestick Predictor : A Framework Toward Forecasting the Price Movement from Candlestick Charts

SIOU JHIH GUO, CHIH-CHIEH HUNG, AND FU-CHUN HSU

- PAAP'18 - The 2018 International Symposium on Parallel Architectures, Algorithms and Programming

Taipei, Taiwan

Dec. 26th-28th 2018

## Let Machine Read Candlestick Charts Like Human Beings

SIOU JHIH GUO, CHIH-CHIEH HUNG, AND FU-CHUN HSU

- IDAA 2018 - International Workshop of Intelligent Data Analytics and Applications, Joint with JSAI International Symposia on AI

Yokohama, Japan

Nov. 12th-14th 2018