YingHao (Ian) Chen

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- 5+ years of experience as a software engineer
- Main expertise in data engineering and data pipeline design with Hadoop ecosystem
- Strong experience with DevOps best practices
- Proficient with cloud services and infrastructure as code

Education

Georgia Institute of Technology, Atlanta GA, USA

B.S. in Electrical and Computer Engineering   *Dec. 2012*

Experience

Woven Planet (TRI-AD), Tokyo, Japan   *Jan 2021 − Present*

- Lead the development of Innersource platform in Toyota group
  - Provide tools and platform for global Toyota group companies and partners to collaborate on software projects, such as VCS(GHE, Gitlab), Jira, CI/CD(Github Actions, Gitlab)
  - Implemented zero trust network to maintain high security standards while minimizing network inconveniences
  - Maintain IP segration while enabling collaboration among participating parties
- Practice strict Infrasture as Code and testability of infrastructure with Terraform and Concourse CI
- Help users onboard the platform by providing consulting on migration of their development workflow(CI/CD pipeline, code review bots, etc)

keywords: AWS, terraform, Kubernetes, GitHub, Gitlab, Concourse CI

LINE Corp, Tokyo, Japan   *May 2019 − Dec 2020*

- Build the largest self-service batch ingestion system in LINE
  - Over 250+ jobs running daily on multiple Hadoop clusters
  - Enable business stakeholders to create data ingestion pipeline in a self-service manner, without writing code
  - Horizontally scalable and highly stable by using containers and Kubernetes
- Lead the migration of legacy batch ingestion system from bare-metal to Kubernetes
  - Removed single point of failure and increased scalability
- Provide consulting and troubleshooting on batch ingestion pipeline best practices and mysql query tuning
- Develop web app and microservices with Django, Go, Vue.js

keywords: Kubernetes, Hadoop, Hive, Spark, Airflow, ELK, Python, Drone CI, Go, Java, Docker

Honestbee, Taipei, Taiwan   *July 2018 − April 2019*

- Develop Golang microservices based on event-sourcing pattern and Kafka
- Develop CLI app based on kops to allow developers to spin up development Kubernetes clusters.

- Maintain multi-tenent Kubernetes based development and production infrastructure
- Build operational visibility by applying a systematic, SLO based approach to monitoring
- Provision cloud infrastructure using Terraform, AWS, Datadog, etc.
- Drive the adoption of CI/CD pipelines, help teams to deliver products in a faster and better way

keywords: Kubernetes, AWS, Terraform, Prometheus, Go, Drone CI, Docker

Largitdata, Taipei, Taiwan   *April 2016 – July 2018*

- Develop data pipeline with RethinkDB and Elasticsearch for NLP model training and serving
- Develop and maintain Kubernetes infrastructure
- Develop distributed crawler system based on Python and Kubernetes
- Develop web app with Django and React/Redux

keywords: Kubernetes, AWS, Python, Celery, RabbitMQ, Elasticsearch, RethinkDB, Docker

Institute of Information Industry, Taipei, Taiwan   *April 2016 – August 2018*

- Teach data ETL and processing using Python
  - Introduction to Python language
  - Extract data from file, database, and web
  - Web crawler design
  - Data cleaning and transformation with Python
  - Data loading to RDBMS

keywords: Python, ETL, web crawler

WangYu Digital Technologies, Taipei, Taiwan   *April 2015 – April 2016*

- Building web applications with Ruby on Rails, PostgreSQL, and React.js. The website has over 10k registered users and 15k daily page views.
- DevOps tasks including system automation with Ansible, overseeing 10 Linux servers.
- Building distributed systems using Python, Celery, and RabbitMQ. Processing more than 10k tasks per day.

keywords: Python, Celery, RabbitMQ, FFMPEG, Video Streaming, Ruby on Rails

Migo Entertailment, Taipei, Taiwan   *April 2014 – April 2015*

- Survey and conduct feasibility testing for various data transfer technologies (SD Cards, WiFi)
- Build an embedded system based on Raspberry Pi and WiFi to conduct traffic counting for potential retail spots
- Build cost model for the technology stack

keywords: Python, Linux

Substitute Military Service, Taichung, Taiwan   *March 2013 – March 2014*

- Served as second lieutenant and overseeing 200 persons in the company.