Chen-Ming **Yang**

SOFEWARE ENGINEER · DATA ENGINEER

Taipei, Taiwan

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"A Foolish Consistency is the Hobgoblin of Little Minds"

Sum**mary**

Familiar with the progress of building a team from scratch, and cross-functionality from engineer to the business side. Rich experience in Python development and diverse data domain from geospatial, commerce, and finance.

Looking for the challenge of either data-intensive services, low-latency data transmission, or artificial intelligence production.

Wor**k Experience**

FULL-TIME

Kronos Research
Taipei, Taiwan

SOFTWARE ENGINEER II
Nov. 2021 - Now

- **Design a producer-consumer framework to export event logs from daily to second-level realtime**
  Skills: EKS, Kinesis, Mmap, Redshift
- **Design the data access API service to generate on-the-fly GB-level data and export**
  Skills: Argo, C++, Go, MySQL
- **Improve a pipeline which daily processing over 500 GB data volumes 60x times faster**
  Skills: Argo, CGo, Python
- Cross-team collaboration to design a universal and transparent data collator
- Develop data-intensive pipelines on Argo
- Analyze the company-wise portfolio rate-limit behavior to optimize the request allocation
- Analyze the performance of market-making to react earlier in volatile market

WeMo Scooter Corp.
Taipei, Taiwan

DATA SCIENTIST
Sep. 2019 - Oct. 2021

- **Reduce 90% pipeline landing time by abstracting a layer to generate DAG and deploy**
  Skills: Airflow, GCS, Jinja
- **Design the data warehouse flow for both marketing and geospatial analysis**
  Skills: Airflow, BigQuery, Dimensional model, Postgres
- **Provide the BI service to non-technical colleagues**
  Skills: GKE, Metabase, OAuth
- **Deliver a geospatial-temporal business insight about tenant behavior for resource optimization**
  Skills: HDBScan, Voronoi
- Maintain the ELK Cluster
- Analyze the geospatial battery allocation and routing optimization
- Analyze the profitability of the battery life cycle and defect rate
- Analyze the user behavior of acquisition, rental behavior, and persona

Academia Sinica, Institute of Information Science
Taipei, Taiwan

RESEARCH ASSISTANT & RDSS (COMPULSORY MILITARY SERVICE)
Aug. 2016 - Aug. 2019

- **Deliver an image segmentation pipeline to support the experiment of papers published in the Nature Communication journal**
  Skills: PyQt5, RCNN, Tiramisu
  Paper: "Artificial intelligence reveals environmental constraints on color diversity in insects"
- **Build a beetle trajectory tracking pipeline for biology researchers to replace the human labeling process**
  Skills: Hungarian, Kalman, Keras, OpenCV
- Having a series of Python tutorials and Crawing lectures for Taiwan AI Academy
- Maintaining at least 10 servers for training model

Side Projects

IPI *Remote*

IOT TELEMETRY DATA ANALYSIS PIPELINE *July 2021 - Sep. 2021*

- PoC of automatically archive items to S3 using DynamoDB TTL with Lambda and Firehose
- PoC of building data analysis pipeline with Glue and Athena

KYC Right *Remote*

SPECIALLY APPOINTED RESEARCH ASSISTANT *Nov. 2019 - Apr. 2020*

- PoC of community detection on Neo4j

Taiwan-Ebook-Lover *Remote*

SEARCH THE E-BOOKS ON DIFFERENT PLATFORMS *Sep. 2021 - Now*

- Using Prometheus to export metrics and monitoring on Grafana on 1 virtual machine

Education

National Chi Nan University (NCNU) *Nantou, Taiwan*

BS & MASTER'S DEGREE IN COMPUTER SCIENCE AND INFORMATION ENGINEERING *Sep. 2011 - Jul. 2016*

- Paper "Integrated Sleep Scheduling for Multiple Relays and UEs in LTE-TDD"
- The Director of Student Association of CSIE Department.

Memorial University of Newfoundland (MUN) *St. John, NL, Canada*

BACHELOR EXCHANGE STUDENT IN COMPUTER SCIENCE *Sep. 2014 - Apr. 2015*

- Two semesters with GPA 3.5, 3.6 respectively.