

Wei Chen

Data Scientist / AI/ML Engineer / Cloud Architect

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INDUSTRY EXPERIENCE

Amazon Web Services, Taiwan

— *Data Scientist*: Aug 2019 - NOW

Build AI/ML Solutions for Customers in U.S., China, and Taiwan

- Led and developed the AWS ProServe Global Offering:

AI/ML for Manufacturing Quality Prediction

- Reduced defect rate from 2.5% to 0.2% in a quality control project
- Increased 10% fulfill-on-time rate in a manufacture scheduling optimization project using deep reinforcement learning
- Applied graph embedding to improve product recommendation
- Built a real-time defect detection solution in production
- Developed ML-Ops platform to reduce the effort of model deployment and maintenance for customers' data science teams

Change Healthcare, USA

— *Principal Software Engineer*: Sep 2018 - Aug 2019

Led, Designed, and Built a Dynamic Data Ingestion Pipeline for the Healthcare Data Lake on AWS with EMR Spark

- Achieve 20x fewer computational cost than the original approach with a special electronic health record parallel processing structure
- Designed and Built the ML-Ops MVP with Spark-ML

Groundhog Technologies Inc., Taiwan, Indonesia

— *Lead Architect*: Oct 2016 - Aug 2018

Led, Designed, and Built a Data Enrichment Platform (DEP) and a Demand Side Platform (DSP) for Mobile Operators

- Coordinated the team to deliver, deploy, and customize the software for 5 Mobile Operators in 3 Countries
- Designed 6 approaches to map AAID/IDFA with Subscriber-ID to bridge telecom and digital advertisement
- Scaled DEP processing capability from 1 TB to 100 TB per Day

— *New Product Tech Lead*: June 2015 - Oct 2016

- Led, designed, and built the MVP of DEP and DSP
- Did several PoCs with 3 mobile operators in 2 countries
- Grew the new product technical team from 1 to 8 people

— *R&D Intern*: Mar 2014 - May 2014

- Designed a topology encoding algorithm based on BIRCH algorithm for users positioning data in mobile operators
- Prototyped the new software product based on the algorithm

ACADEMIC EXPERIENCE

Stanford University, USA - LBCN

— *Research Assistant*: Jan 2015 - May 2015

Modeled Human Brain with Implanted EEG

RIKEN BSI, Japan - Cichocki Lab

— *Scientist*: June 2014 - Sep 2014

Predicted Epilepsy Seizure and Applied EEG Visualization/Sonification

National Taiwan University, TW - BEBI Medical Informatics Lab, Master of Science

Sep 2012 - May 2014

National Tsing-Hua University, TW - EE Bachelor of Engineering

Sep 2007 - May 2011

CERTIFICATION

AWS - Solution Architect Associate

AWS - Developer Associate

AWS - Machine Learning Specialist

AWS - Data Analytics Specialist

OTHER EXPERIENCE

8 SCI Machine Learning Papers: [Link](#)

Codingame AI Arena: [205th / 2,288,463](#)

TMU-MIT 2016 Hackathon: 1st

National Taiwan University:

Guest Lecturer 30 Hours+

Institute Student Representative

Open Source Projects:

Apache Marvin-AI - ASF Committer

Apache Prediction-IQ - Contributor

Scala-Machine-Learning - Main Contributor

Frameworks, Tools, and Languages:

AWS, MxNet, PyTorch, TensorFlow, Spark, Hadoop, Kafka, Node, React, Nginx, MySQL, MongoDB, Redis, Neo4J, ELK, Prometheus, Grafana, Docker, K8S, Git, Unity, Python, Scala, JavaScript