

# Wei Chen

Data Scientist / ML Engineer / Cloud Architect / AI Consultant

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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 2 AWS Professional Services Global Offerings to apply AI/ML for manufacturing automation and optimization
- Coached 4 enterprises to establish new ML teams and develop ML practices in Computer Vision, and Recommendation Engine
- Completed 12 AI/ML projects with more than 10 million dollars business impact in total
- Led 3 customer data teams to develop ML-Ops platforms
- Experienced in bringing AI/ML research projects into production

### 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 2 patented mechanisms to bridge telecom users and digital advertisement platform users
- Scaled data 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 2015

- 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: [237th / 2,478,298](#)

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