

# 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

- Lead and develop the AWS ProServe Global Offering - AI/ML for Manufacturing Quality Prediction
- Reduce defect rate from 2.5% to 0.2% in a quality control project
- Increase 10% fulfill-on-time rate in a manufacture scheduling optimization project using deep reinforcement learning
- Develop MLOps 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

Lead, Design, and Build 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 specialized electronic health record structure for parallelism
- Build MLOps MVP with Spark-ML

### Groundhog Technologies Inc., Taiwan, Indonesia

— *Lead Architect*: Oct 2016 - Aug 2018

Lead, Design, and Build a Data Enrichment Platform (DEP) and a Demand Side Platform (DSP) for Mobile Operators

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

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

- Lead, design, and build DEP and DSP with Hadoop, Spark, Node, React, Redis, ELK, Docker, Nginx, Prometheus, Grafana
- Grow the new product technical team from 1 to 8 people

— *R&D Intern*: Mar 2014 - May 2014

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

## ACADEMIC EXPERIENCE

### Stanford University, USA - [LBCN](#)

— *Research Assistant*: Jan 2015 - May 2015

Model Human Brain with Implanted EEG

### RIKEN BSI, Japan - [Cichocki Lab](#)

— *Scientist*: June 2014 - Sep 2014

Predict Epilepsy Seizure and Apply EEG Visualization/Sonification

## EDUCATION

### National Taiwan University - BEBI

[Medical Informatics Lab](#), Master of Science

Sep 2012 - May 2014

### National Tsing-Hua University - EE

*Bachelor of Engineering*

Sep 2007 - May 2011

## CERTIFICATION

[AWS - Solution Architect Associate](#)

[AWS - Developer Associate](#)

[AWS - Machine Learning Specialist](#)

## ACHIEVEMENT

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

Codingame AI Arena: [173th / 2,010,260](#)

TMU-MIT 2016 Hackathon: 1st

### National Taiwan University:

Guest Lecturer 30 Hours+

Institute Student Representative

### Apache Software Foundation:

[Marvin-AI](#) Committer