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 2 AWS ProServe Global Offerings:
    * ML Assisted Manufacturing Quality Prediction
    * Manufacture Scheduling Optimization
 - 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
 - Established a new data science team with an enterprise and built 4 deep learning computer vision practices with the team

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: 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-IO – Contributor
Scala-Machine-Learning – Main Contributor

Frameworks, Tools, and Languages:

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