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 ML-Ops platform to reduce the effort of model deployment and maintenance for customers' data science teams
 - Apply graph embedding to improve product recommendation

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

OTHER EXPERIENCE

8 SCI Machine Learning Papers: Link
Codingame AI Arena: 203th / 2,151,015
TMU-MIT 2016 Hackathon: 1st
National Taiwan University:
Guest Lecturer 30 Hours+
Institute Student Representative
Apache Software Foundation:
Marvin-AI Committer
Prediction-IO Contributor
SageMaker-Python-SDK Contributor
Framework, Tool and Language:
AWS, MxNet, PyTorch, Spark, Hadoop, Kafka, Node, React, Nginx, MySQL, MongoDB, Redis, Neo4J, ELK, Docker, K8S, Git, Unity, Python, Scala, JavaScript