Huan-Cheng Chang

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EXPERIENCE

Basis AI   04/2019 – 09/2020
Software Engineer   *Singapore*
- Built a platform that orchestrates machine learning jobs using Kubernetes in Python
- Delivered an admin system that can manipulate internal data and receive changes in infrastructure
- Improved our CI/CD pipelines with TeamCity and reduced 30% of build time
- Built a feature to support machine learning job pipelines using Argo Workflow
- Built the user interface of our platform using React.js

R&D, Shopee Singapore Pte. Ltd.   09/2018 – 04/2019
Software Engineer – Machine Learning   *Singapore*
- Built a server that could tolerate high QPS to serve recommendation algorithms
- Built recommendation algorithms using item similarity and user behavior data
- Created machine learning models for feed recommendation using user behavior, post content, etc.
- Deployed recommendation algorithms using MapReduce and Hadoop

Chinese Knowledge and Information Processing Group, Academia Sinica   07/2017 – 01/2018
Advisor: Dr. Wei-Yun Ma   *Taipei, Taiwan*
Topic: Task-Oriented Dialogue System for Tour Recommendation
- Designed and built all components including language understanding, dialogue management, and language generation
- Generated new tour packages according to users' preferences using our graph-traversal algorithm
- Created diversified responses using RNN combined with eHowNet, a lexical knowledge base
- Implemented our work on Facebook Messenger Platform
- Improved the recommendation strategy of our system using reinforcement learning

R&D - Windows and Devices Group, Microsoft Corp.   07/2016 – 06/2017
Software Engineer Intern   *Taipei, Taiwan*
- Worked on a factory-monitoring IoT solution in cooperation with Nexcom. Built the backend of the system, a Windows App for devices, and a chatbot
- Engaged in development and integration of Premium Surface Pen and related services

SKILLS

Programming/Scripting Languages: Python, JavaScript, Golang, Scala, C++
Software Frameworks/Libraries: Hadoop, Kafka, Tensorflow, Pytorch, React.js, Scikit-learn
Languages: Mandarin (native), English (fluent), Taiwanese (elementary)

EDUCATION

École polytechnique fédérale de Lausanne, Lausanne, Switzerland   09/2020 – Present
Master of Science, Computer Science

National Taiwan University, Taipei, Taiwan   09/2013 – 01/2018
Bachelor of Science, Electrical Engineering

SELECTED PROJECT

Cofacts: collaborative fact-checking
- Building a collaborative system combining chatbots and fact-check reports, aiming at fighting against fake news in Taiwan

More on my website: https://changhc.me/