Huan-Cheng Chang

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EXPERIENCE

R&D, Shopee Singapore Pte. Ltd. 09/2018 – Present
Software Engineer – Machine Learning *Singapore*
- Building a server that can tolerate high QPS to serve recommendation algorithms
- Building machine learning models for feed recommendation using user behavior, post content, etc.
- Generating lists of recommended items and posts using MapReduce and Hadoop

Chinese Knowledge and Information Processing Group, Academia Sinica 07/2017 – 05/2018
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: Golang, JavaScript, Python, SQL, C#, C++, Java, LaTeX
Software Frameworks/Libraries: Hadoop, Kafka, Tensorflow, Pytorch, React.js, Scikit-learn
Languages: Chinese (native), English (fluent), Taiwanese (elementary)

EDUCATION

National Taiwan University, Taipei, Taiwan 09/2013 – 01/2018
Bachelor of Science, Electrical Engineering
- Junior/Senior GPA: 4.04/4.30; Cumulative GPA: 3.95/4.30

PUBLICATION

ODSQA: Open-domain Spoken Question Answering Dataset
Chia-Hsuan Lee, Shang-Ming Wang, Huan-Cheng Chang, Hung-Yi Lee, *Proceedings of 7th IEEE Workshop on Spoken Language Technology (SLT 2018), Athens, Greece, December 18-21, 2018. IEEE.*

SELECTED PROJECTS

Cofacts: collaborative fact-checking
- Built a collaborative system connecting instant messages and fact-check reports together, aiming at fighting against fake news in Taiwan

Taipei City Government FAQ Chatbot
- Built a retrieval-based chatbot (available to the public now) using the TextRank algorithm and FAQ datasets from Taipei City Government

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