

# Huan-Cheng Chang

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## EXPERIENCE

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### Basis AI

04/2019 – Present

*Software Engineer*

*Singapore*

- Building a server that can submit machine learning jobs and interact with other Kubernetes clusters
- 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
- Building 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

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**Programming/Scripting Languages:** Python, JavaScript, Golang, SQL, C++

**Software Frameworks/Libraries:** Hadoop, Kafka, Tensorflow, Pytorch, React.js, Scikit-learn

**Languages:** Chinese (native), English (fluent), Taiwanese (elementary)

## EDUCATION

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**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

## SELECTED PROJECT

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### 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/>