

Ti-Chung Cheng

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1010 W. Main St. Apt221, Urbana, IL., USA 61801

| Looking for Position 2020 | Data science & Database + Human-Computer Interaction | Graduating 2020 |

EDUCATION

University of Illinois at Urbana-Champaign

2018.08 – Exp. 2020

M.Sc. in Computer Science (Advisor: Prof. Karrie Karahalios & Prof. Aditya Parameswaran)

The Chinese University of Hong Kong

2013.09 – 2017.12

B.Sc. in Computer Science (Advisor: Prof. James Cheng, FYP: “Efficient nearest-neighbor search in Distributed Manner”)
Minor in Business Economics

University of Illinois at Urbana-Champaign

2015.01-2015.06

Exchange Student, Computer Science Department

WORK & TEACHING EXPERIENCE

Software Engineering Intern

Exp. May 2019 – Exp. Aug 2019

Lightening Team – Salesforce.com inc.

San Francisco, USA

Research Assistant

Jan 2019 – Exp. May 2019

DataSpread Project - Computer Science Department, University of Illinois at Urbana-Champaign
- Building a relational database system with spreadsheet-like interfaces to allow direct-data manipulation

Illinois, USA

Teaching Assistant – CS242 Programming Studio

Aug 2018 – Exp. Dec 2018

Computer Science Department, University of Illinois at Urbana-Champaign

Illinois, USA

Assistant Engineer – Natural Language Processing R&D

May 2018 – Aug 2018

Research and Development Center, Machine Learning Team, KKBOX Group International Limited
- Initiated preliminary research using pattern-based relation extraction for Mandarin music content
- Designed music-query sentence generator for natural language understanding of trained models

Taipei, Taiwan

Research Student & Summer Research Intern - Algorithm Implementation and Research

Dec 2015 – Dec 2017

Husky Lab - Machine Learning Team, The Chinese University of Hong Kong (Supervisor: Prof. James Cheng)

Hong Kong

- Conducted research on distributed hash-based nearest-neighbor search algorithms
- Build 15 % more time efficient and scalable Image Retrieval system compared to OpenCV FLANN

Summer Research Intern – Data Collection and Analysis

July 2015 – August 2015

Internet Security Team, National Center for High-Performance Computing (Supervisor: Prof. Ann, Hsing-Yen)

TN, Taiwan

- Designed database pipeline to retrieve and analyzes malicious fast-flux domains using Python and MySQL

SELECTED PERSONAL PROJECTS

[Web] The Official Website for CUHK Taiwanese Student Association

Leader of The Open Community Project, running MongoDB, Express.js and React.js using Isomorphic framework

- Developed the website with CMS system as full stack developer and product manager

[Chatbot] Rachel: friends and family health-centered chatbot

Hackathon Project. A chatbot to integrate calendars with health conditions of families using MEN stacks and Luis.ai.

- Initiating the idea and coded 40+ backend APIs while leading the project of 4 members

[Research] Exploring Potential of Asian Low-Cost Carriers Forming Strategic Alliance

Individual research on the aviation industry in areas of decision science using computer science techniques

- Invented an evaluation metric with a Python scraper for Asian low-cost carriers through decision science research

- Supervisor: Dr. Yuen, Andrew Chi-lok, currently collaborating on a working paper

PUBLICATION

Jinfeng Li, Xiao Yan, Jian Zhang, An Xu, James Cheng, Jie Liu, Kelvin K. W. Ng, **Ti-chung Cheng**: “A General and Efficient Querying Method for Learning to Hash.” SIGMOD Conference 2018: 1333-1347

SELECTED EXTRA-CURRICULAR & SERVICES

Initiator and coordinator - The Circle Group

Oct 2016 – Dec 2017

- Founded a platform conducting academic workshops and created a guide for incoming freshmen with over 6000+ views

Information Officer - The Chinese University of Hong Kong, Taiwanese Student Association

Oct 2015 – Oct 2016

- Launched the organization’s online service and homepage and assisted with technical setups for activities

SKILLS

- Python	- C/C++	- JavaScript	- Java	- HTML/CSS	- MEN stacks	- Node.js
- MySQL / SQL	- MongoDB	- Husky	- Photoshop	- Photography	- Pandas	- React.js