YiHung **Chou**

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Education

The Chinese University of Hong Kong (CUHK) — *Hong Kong*

B.Sc. in Computer Science (Elite Stream) GPA: 3.47/4.00, Major GPA: 3.51/4.00 — *Aug. 2015 - Nov. 2019*

Publications

"I can show what I really like.": Eliciting Preferences via Quadratic Voting (Accepted) — *CSCW 2021*

Ti-Chung Cheng*, Tiffany Wenting Li*, **Yi Hung Chou**, Karrie Karahalios, Hari Sundaram

Skills

Frameworks	Angular, NodeJS, ReactJS, React Native, QT, Unity, Spring Boot, Android, Tensorflow, Flask
Tools	Protractor, Selenium, Jasmine, Storybook, JIRA, IDA pro
Programming Languages	TypeScript, JavaScript, Python, SQL, C#, C/C++, Kotlin, Bash, Java, HTML/CSS

Experiences

Frontend Tech Lead & Fullstack Engineer — *Tainan, Taiwan*

CryptoBLK, Taiwan — *Mar. 2020 - now*

- Led front-end project with 5 developers to implement enterprise-level web application with Angular (101,460 lines of code)
- Leveraged D3.js to build data visualization dashboard and utilized e2e, unit and vision regression testing to ensure code quality
- Introduced Storybook to facilitate communication between designers and programmers
- Participated in recruiting, evaluating, and Agile Sprint planning to ensure product delivery roadmap

Software Engineer Internship (ChatOps) — *Taipei, Taiwan*

IBM — *Jul. 2018 - Sept. 2018*

- Implemented chat widget to support GSSC TVT allowing translators worldwide to easily communicate with project managers
- Developed proof of concept of a multi-language multi-purpose chatbot with IBM Watson services
- Implemented proof of concept of translation proxy with IBM Globalization Pipeline

Technical Consultant — *Hong Kong*

Learning platform project — *Sep. 2017 - Jul. 2019*

- Implemented business learning platform which delivers business concepts for 300+ students in Hong Kong and Japan
- Utilized ReactJS and Firebase to provide data visualization and real-time control panel
- Presented poster for learning platform at CUHK Teaching and Learning Innovation Expo 2018
- Designed and revised the platform based on qualitative and quantitative user feedback

Software Engineer (Chatbot) - Fred, Feed Me — *Turin, Italy*

European Innovation Academy 30days entrepreneur camp — *Jul. 2017 - Jul. 2017*

- Cooperated with multi-background teammates to build from business plan to minimum viable product
- Won top 10 teams in final review
- Generated natural language processing chatbot by leveraging Facebook messenger APIs, API.AI, and Node.js

Student Researcher — *Hong Kong*

Summer Research at Prof. Michael Lyu's Lab: Malware Analysis & Symbolic Execution — *June. 2016*

- Researched on symbolic execution tools: KLEE
- Conducted malware analysis utilizing reverse engineer tool: IDA Pro - Windows Debugger Hub and network analyzer: Wireshark

Selected Projects

Final Year Project: Research For Single-view 3D Point Cloud Reconstruction

The Chinese University of Hong Kong

- Revised end-to-end model point2mesh for 3D reconstruction with point cloud as input
- Deployed PointNet++ as a middle layer for restricting the relevant position of points

Rachel: NLP Chatbot For Health Care

MICROSOFT IMAGINE HACKATHON

- Implemented chatbot that assists users in managing their calendar and reminder with health for themselves or their family.
- Implemented with Azure web app backend and Azure Luis

Lantern: Jet Lag Adjustment Combined With Inflight Timetable Arrangement Assistant.

CATHAY PACIFIC HACKATHON

- Customized timetables for users with appropriate nap time suggestions for jet lag reduction
- Implemented the cross-platform mobile application with React Native

Taiwanese Student Association Official Website

TAIWANESE STUDENT ASSOCIATION

- Implemented isomorphic ReactJS website to improve SEO ranking
- Attracted more than 22K visits and served over 280+ on-campus Taiwanese students

P2P Music Player

COURSE PROJECT FOR CSCI 3280 INTRODUCTION TO MULTIMEDIA SYSTEMS

- Built P2P music player with C++ and QT framework
- Utilized network programming and windows.h API to share music files in a peer-to-peer manner and sync music playback
- Selected as Top 5 Project in the course

Online Course Platform

COURSE PROJECT FOR CSCI 3100 SOFTWARE ENGINEERING

- Designed UML and DFD and documented software development before implementation for testing and database design
- Created automatic data insertion script to insert 100K+ sets of data into MongoDB to test application performance and dynamically rendered data during searching without delay in front-end
- Utilized ReactJS and Bootstrap to implement a responsive user interface.

Extracurricular Activities

Circle Coding
Hong Kong

CORE MEMBER AND LEADER
Aug. 2017 - Nov. 2019

- Hosted weekly workshops and courses for 300+ non-CS and CS attendees with topics: Python, web application, and mobile computing
- Designed materials like programming assignments and slides for a year-long workshop

Bidcoin & Lantern: Pre-incubator Project
CUHK, Hong Kong

CORE MEMBER & FRONT-END DEVELOPER
Aug. 2017 - Jun. 2018

- Implemented cryptocurrency price prediction platform with ReactJS
- Conducted competitor and marketing research and went through the CUHK pre-incubator

Student Ambassador
CUHK, Hong Kong

STUDENT AMBASSADOR FOR CUHK & DEPT. COMPUTER SCIENCE
Aug. 2017 - Jun. 2018

- Shared learning experience to 20+ junior students for Dept. Computer Science
- Shared university life and learning experience for 500+ prospective students in the press conference for the CUHK

Student Volunteer
Taipei, Taiwan

TAICHI: TAIWAN COMPUTER-HUMAN INTERACTION
Sept. 2019

Awards & Scholarships

2018	**Elite Team**, Microsoft Imagine Cup of Hong Kong	*Hong Kong*
2018	**2nd runner-up**, Microsoft ImagineHack | Intro: https://devpost.com/software/bidcoin	*Hong Kong*
2018	**2018-19 Dean's List**, Computer Science Department, CUHK	*Hong Kong*
2017	**2016-17 Dean's List**, Computer Science Department, CUHK	*Hong Kong*
2017	**Honorable Mention**, Cathay Pacific Hackathon | Github: https://github.com/hank0982/Lantern	*Hong Kong*
2015	**Honors at Entrance**, CUHK	*Hong Kong*
2015	**Chung Chi College 2015 Class Award**, Chung Chi College, CUHK	*Hong Kong*
2015	**Admission Scholarships 2015-16**, Faculty of Engineering	*Hong Kong*