

# HU JUI CHUNG

Tel: 0963-358-258

Email: [tony84822@gmail.com](mailto:tony84822@gmail.com)

Website: <https://xbluesky.github.io>

Github: <https://github.com/XBlueSky>



## Education

National Chiao Tung University, Hsinchu (Sep. 2013 – present)

Degree: Master of Science (Sep. 2017 – present), Bachelor of Science (Sep. 2013 – Jun. 2017)

Major: Computer Science, Internet Design

The Affiliated Senior High School of National Taiwan Normal University, Taipei (Sep. 2010 – Jun. 2013)

## Laboratory experience

### 1. Undergraduate Research Thesis: Basketball - mobile application & website

- ✓ Created a Basketball game system, it can provide functionalities for players, coaches, judges and audience like a community website but just for basketball lovers. And it can easily hold a game.
- ✓ Connected App and website with Java server created by ourselves. Users can view live stats, scores and Registrants can update members etc... whenever and wherever they can.

(Advisor :Prof. Shyan-Ming Yuan)

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### 2. Cost Minimization with Offloading to Vehicles in Two-tier Federated Edge and Vehicular-Fog Systems

- ✓ We consider a two-tier federated Edge and Vehicular-Fog (EVF) architecture and aim to minimize overall cost while meeting latency constraint by setting up an appropriate offloading configuration.
- ✓ We model this to a single-objective mixed integer programming problem. To solve this mixed integer problem in real time we propose an iterative greedy algorithm using the queuing model.

(Advisor :Prof. Ying-Dar Lin, Li-Hsing Yen)

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### 3. Cost Minimization with Dynamic Offloading to Vehicular-fogs in Multi-Edge Scenario

- ✓ Ongoing

(Advisor :Prof. Li-Hsing Yen)

## Work experience

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### 1. National Chiao Tung University Library

- ✓ API Programming Intern for library database
  - ✓ Front-end with Angular(<https://www.lib.nctu.edu.tw/>)
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### 2. 2015 TTCP Organized

- ✓ Hold a program contest for NTU, NCTU, NTHU (contest website: <https://goo.gl/zvcMrV>)
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### 3. Coretronic Intern 2017 Summer

- ✓ Intelligence test RD assistant
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### 4. 核果資訊學院

- ✓ Self-made teaching materials for C language
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### 5. Groundhog Intern 2018 Summer

- ✓ Mobile intelligence RD intern

## Language skills

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Mandarin Chinese (native), English (High-intermediate), Korean (beginning)

## Skills

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### Web

- JavaScript
  - NodeJS, React, Angular, ExpressJS, JQuery
- HTML
  - Canvas
- CSS
  - Bootstrap, Semantic-ui
- PHP
- Database

### Other

- Python
- Java
- C/C++
  - Boost Asio
- Awk / Shell script
- Git
- Docker

### Computer skill

- MacOS
- Window
- Linux
- MS office
- Adobe AE
- Premiere
- Sony Vegas

## Extracurricular activities

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### 1. Student Association, Dept. of Computer Science, NCTU

- ✓ Chief Information Officer
    - Managed web site (<https://www.nctucs.tw/>) and provide technical service.
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### 2. Computer Science Dept. nctucser Camp, NCTU

- ✓ Vice President ( Manage the nctucser camp )
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### 3. 2015 Mei-Chu Hackathon, NCTU

- ✓ Information staff ( photography, Produced and edited video )
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## Side project

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### 1. 8 queen problem

- ✓ Solve it by using distributed algorithm based on Maximal Weighted Independent Set.
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### 2. Web crawler

- ✓ Login to NCTU portal and get schedule on course selection system implemented by Python.
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### 3. Map Visualization in Big Data

- ✓ Reduce size of raw data and classify into different groups by using KD-tree.
  - ✓ Visualize Big Data on web by using Leaflet with Canvas implemented by JavaScript.
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### 4. Implementation for Game Theory

- ✓ Coalition Game - Sharply value
  - ✓ CombinatorialAuctions - Critical value, Vickrey–Clarke–Groves mechanism
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### 5. Network programming

- ✓ Design a shell with special piping mechanisms
- ✓ Concurrent connection-oriented server for single-process and multi-process by shared memory.
- ✓ Remote batch system that runs over HTTP.
- ✓ Implement the SOCKS4 firewall protocol in the application layer of the OSI model.