

# Qiu Haoran

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## Education Background

### University of Hong Kong

*Bachelor of Engineering in Computer Science & Minor in Mathematics, Major GPA: 4.03/4.3*

- Teaching Assistant of COMP 2396 Object-oriented Programming and Java Sept. 2017 - Dec. 2017
- Dean's Honor List, Faculty of Engineering Nov. 2016
- Entrance Scholarships for Excellent Mainland Students, University of Hong Kong Sept. 2015
- Relative Coursework: Object-Oriented Programming, System Architecture and Distributed Computing, Operating Systems, Database Management, Computer Networks, Data Structures and Algorithms, Artificial Intelligence

### University of Wisconsin, Madison

*College of Engineering, Faculty Exchange Program*

- Research Assistant at Wisconsin Wireless and NetworkG Systems (WiNGS) Laboratory Jan. 2018 - present
- Lee Shau Kee Scholarships for Student Enrichment, University of Hong Kong Jan. 2018

## Work Experience & Leadership Experience

### Department of Computer Science, HKU

*Research Assistant, Systems and Networking*

- Plover: **Fast Virtual Machine fault-tolerance**. Designed algorithm to decide the appropriate time to do synchronization. Build and do performance evaluation on various applications.
- OWL: **Concurrent attack detector and analysis tool**. Published CVE: 2017-12193 on Linux Kernel key subsystem.

### Hututa Technologies Ltd.

*R&D Software Engineer Intern*

- Make a biological gene mapping algorithm "Stampy" runnable on a **distributed system**. Speed accelerate around **3 times faster** than Spark. Bug report about the algorithm. Virtual machines and clusters management.
- Design and develop a network monitor system. Added **dynamic DNS** update. MySQL, Nginx, and Unicorn are appropriately used in this system. Languages mainly used: Python, PHP, Javascript.

### XNode | Startups Accelerator and Coworking Space

*Web Programmer Intern & IT Assistant*

- Website development - Build client network, tag-search, meeting room online booking system.

### Chinese Culture Communication Association

*IT Director*

- Organized Chinese Culture related activities both on-campus and off-campus. WeChat platform operation.

## Projects & Contests

- Othello, Artificial Intelligence Course Project Nov. 2017
- CodeIT Suisse 2017, Credit Suisse Group Sept. 2017
- Distributed System Architecture Course Project: JPoker 24-Game Mar. 2017
- Honorable Mention, Mathematical Contest in Modeling(MCM) Jan. 2017
- "Live Long Changing", Cathay Pacific 24-Hour Hackathon Oct. 2016

## Skills

- Programming Languages:** Familiar with: Java, C/C++, Python, Haskell, MATLAB  
Also basic ability with: JavaScript, PHP, HTML&CSS.
- OS, Software & Tools** Linux, LaTeX, Markdown, Node.js, MEAN, RESTful Web Service
- Languages:** Mandarin (Native Speaker), English (TOFEL: 104), Cantonese (Basic)

## Extra-curricular Activities

- Member of CSSAUD Men's Basketball Team, Champion in 2016, First Runner-up in 2017 2015 - Present
- Residential Student Advisor, University of Hong Kong 2016 - 2017
- Trail Walker - 50 km Walk Along Hong Kong Island Trail, General Education, HKU Nov. 2016
- Member of Bridge Team of SCSH, HKUSU 2015 - Present
- Student Helper for HKU Admission in Mainland China, Ji Nan Session Summer 2016
- HKU Information Day Volunteer, Faculty of Engineering Oct. 2015