

# Qiu Haoran

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## Education Background

### University of Hong Kong

*Bachelor of Engineering in Computer Science & Minor in Mathematics, Major GPA: 4.0/4.3*

- **Teaching Assistant** of COMP 2396 Object-oriented Programming and Java
- **Dean's Honor List**, Faculty of Engineering
- **Entrance Scholarships** for Excellent Mainland Students, University of Hong Kong
- Graduated with **First Honor**

### Hong Kong

2015 - 2019

Sept. 2017 - Dec. 2017

2016, 2018, 2019

Sept. 2015

May. 2019

### University of Wisconsin, Madison

*College of Engineering, Faculty Exchange Program, CGPA: 4.0/4.0*

- **Research Assistant** at Wisconsin Wireless and Network Systems (WiNGS) Laboratory
- Lee Shau Kee Scholarships for Student Enrichment, University of Hong Kong
- Exchange & Visiting International Student Academic Excellence Award, UW-Madison

### Madison, US

Spring 2017-18

Jan. 2018 - May 2018

Jan. 2018

July 2018

## Work Experience

### Credit Suisse Group

*Software Engineer Intern, Risk IT Department*

### Hong Kong

June 2018 - Aug. 2018

- Chinchilla: A big data system for risk information storage and processing: Developed pipeline for data compression and zero stripping, which improved storage 4-5 times;
- New feature to the project: Developed multi-risk report designer using React-Redux;

### Department of Computer Science, HKU

*Research Assistant, Systems and Networking*

### Hong Kong

Sept. 2017 - May. 2019

- Plover: fast virtual machine fault-tolerance. Designed algorithm to decide the appropriate time to do synchronization. Build and do performance evaluation on various applications. Published in **NSDI'18**.
- OWL: concurrent attack detector and analysis tool. Published CVE: 2017-12193 on Linux Kernel key subsystem. Program analysis, model build, and evaluation. Published in **DSN'18**.
- FRing: P2P overlay network for fast and robust blockchain system. Paper under review at **IEEE TSC**.

### Hututa Technologies Ltd.

*R&D Software Engineer Intern*

### Hong Kong

July 2017 - Aug. 2017

- Made a biological gene mapping algorithm "Stampy" runnable on a distributed system.
- Designed and developed a network monitor system and added dynamic DNS update function.

### XNode | Startups Accelerator and Coworking Space

*Web Programmer Intern & IT Assistant*

### Shanghai, China

June 2016 - July 2016

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

## Projects & Contests

- Second Runner-up, Final Year Project Competition, Department of Computer Science, HKU
- AI Game Othello, Artificial Intelligence Course Project
- J Poker 24-Game, Distributed System Architecture Course Project
- Honorable Mention, Mathematical Contest in Modeling(MCM)

May. 2019

Nov. 2017

Mar. 2017

Jan. 2017

## Skills

- **Programming Languages:** C/C++, Java, Python, JavaScript(AngularJS, ReactJS, Vue.js), HTML, CSS, PHP, SQL, Swift, Haskell, Matlab, Octave, Julia
- **OS, Software & Tools** GNU/Linux, OpenCV, Git, Jupyter, WireShark, LaTeX, Markdown, Arduino, Gnuplot, Django
- **Languages:** Mandarin (Native Speaker), English (TOFEL: 112), Cantonese (Basic)

## Extra-curricular Activities

- Member of CSSAUD Men's Basketball Team, Champion in 2016, 2018, First Runner-up in 2017, 2019
- Residential Student Advisor, University of Hong Kong
- Trail Walker - 50 km Walk Along Hong Kong Island Trail, General Education, HKU
- Member of Bridge Team of SCSH, HKUSU
- HKU Information Day Volunteer, Faculty of Engineering

2015 - Present

2016 - 2017

Nov. 2018, Nov. 2016

2015 - 2018

Oct. 2015