

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 Sept. 2017 - Dec. 2017
- Dean's Honor List, Faculty of Engineering 2015-18
- Entrance Scholarships for Excellent Mainland Students, University of Hong Kong Sept. 2015
- Relative Coursework: System Architecture and Distributed Computing, Operating Systems, Databases, Computer Networks, Data Structures and Algorithms, Artificial Intelligence, Software Engineering, Compilers, Principle of Programming Languages

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 Jan. 2018 - May 2018
- Lee Shau Kee Scholarships for Student Enrichment, University of Hong Kong Jan. 2018
- Exchange & Visiting International Student Academic Excellence Award, UW-Madison July 2018

Hong Kong

2015 - present

Sept. 2017 - Dec. 2017

2015-18

Sept. 2015

Madison, US

Spring 2017-18

Jan. 2018 - May 2018

Jan. 2018

July 2018

Work Experience

Credit Suisse Group

Software Engineer Intern, Risk IT Department

- 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;

Hong Kong

June 2018 - Aug. 2018

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. 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**.

Hong Kong

Sept. 2017 - present

Hututa Technologies Ltd.

R&D Software Engineer Intern

- 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.

Hong Kong

July 2017 - Aug. 2017

XNode | Startups Accelerator and Coworking Space

Web Programmer Intern & IT Assistant

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

Shanghai, China

June 2016 - July 2016

Projects & Contests

- Othello, Artificial Intelligence Course Project Nov. 2017
- Distributed System Architecture Course Project: JPoker 24-Game Mar. 2017
- Honorable Mention, Mathematical Contest in Modeling(MCM) Jan. 2017

Skills

- Programming Languages:** C/C++, Java, Python, JavaScript(AngularJS, ReactJS, Vue.js), HTML, CSS, PHP, SQL, Swift, Haskell, Matlab, 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 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 - 2018
- HKU Information Day Volunteer, Faculty of Engineering Oct. 2015