

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

Hong Kong

2015 - present

- 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
- Relative Coursework: Object-Oriented Programming, System Architecture and Distributed Computing, Operating Systems, Database Management, Functional Programming, Data Structures and Algorithms

2017 - present

Nov. 2016

Sept. 2015

Work Experience & Leadership Experience

Department of Computer Science, HKU

Research Assistant, Systems and Networking

Hong Kong

Sept. 2017 - present

- Plover: **Fast Virtual Machine fault-tolerance**. Designed algorithm to decide the appropriate time to do synchronization. Build and do performance evaluation on MySQL, Django+Nginx+uWSGI, PostgreSQL, Tomcat, and other web services.
- OWL: **Concurrent attack detector and analysis tool**. Published CVE: 2017-12193 on Linux Kernel key subsystem. Evaluate model on MySQL, Apache and Linux Kernel.

Hututa Technologies Ltd.

R&D Software Engineer Intern

Hong Kong

July 2017 - Aug. 2017

- 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

Shanghai

June 2016 - July 2016

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

Chinese Culture Communication Association

IT Director

Hong Kong

Sept. 2015 - Sept. 2016

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

Projects & Contests

- Othello, Artificial Intelligence Project
- CodelT Suisse 2017, Credit Suisse Group
- Distributed System Architecture Project: JPoker 24-Game
- Honorable Mention, Mathematical Contest in Modeling(MCM)
- "Live Long Changing", Cathay Pacific 24-Hour Hackathon

Nov. 2017

Sept. 2017

Mar. 2017

Jan. 2017

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

- 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
- Student Helper for HKU Admission in Mainland China, Ji Nan Session
- Championship of Men's Basketball Competition, CSSAUD
- HKU Information Day Volunteer, Faculty of Engineering

2016 - 2017

Nov. 2016

2015 - Present

Summer 2016

Spring 2016

Oct. 2015