

# Xinhong (Sam) Liu

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## LINKS

nestederror.com  
Github:// aahung  
Twitter:// @parsecool  
StackOverflow:// xhg

## SKILLS

### PROGRAMMING

Proficient:

C • C++ • HTML/CSS/JS • Python  
Matlab • iOS Dev • Linux Admin  
Shell • Node • NumPy • Pandas  
Intermediate:

Java • C# • .NET • SQL • Testing  
CUDA • Android Dev • PHP  
Flutter • React Native

## COURSEWORK

### GRADUATE

Software Engineering  
Software Development Productivity  
Machine Learning and Data Mining  
Computer Animation  
Operating Systems  
Social and Information Networks

### UNDERGRADUATE

Advanced Programming  
Database Systems  
Internet Technology  
Information Product Design  
Data Mining  
Operating Systems  
Internet Client-server Computing

### TEACHING ASSISTANT

CPSC 310 Software Engineering  
- Sep 2017, Jan 2018, Sep 2018  
CPSC 313 Computer Hardware and  
Operating Systems  
- Jul 2018, Jan 2019

## PUBLICATIONS

[1] X. Chen, L. Jin, W. Kong, T. Sun,  
W. Zhang, X. Liu, J. Fan, S. F. Yu, and  
F. Wang. Confining energy migration in  
upconversion nanoparticles towards  
deep ultraviolet lasing. *Nature  
communications*, 7:10304, 2016.

## EXPERIENCE

### CITY UNIVERSITY OF HONG KONG | Full-time Research Assistant

July 2016 - July 2017 | Hong Kong

- Worked on two research projects. (CUDA for GPU acceleration, Matlab for data analysis, iOS development and frequent scripting)
- Managed and maintain the computer cluster.

### CITY UNIVERSITY OF HONG KONG | Part-time Web Developer

July 2013 - July 2016 | Hong Kong

- Developed the website for 19th ICSNN Conference (ICSNN 2016). The website has registration, payment and content management features. (PHP, MySQL)
- Developed the website for Physical Society of Hong Kong. (PHP, MySQL)
- Developed the content management system for Project Flame. (C#, .NET and SQL Server)
- Developed the website for Hand2Spot, where users can create listings and reserve goods. (C#, .NET and SQL Server)

## EDUCATION

### UNIVERSITY OF BRITISH COLUMBIA

MSc in Computer Science

Sep 2017 - Aug 2019 (expected) | Vancouver, Canada

Thesis: Augmenting Source Code in Code Editors with External Information

### CITY UNIVERSITY OF HONG KONG

BEng in Information Engineering, First Honor

Sep 2012 - July 2016 | Hong Kong

Cum. GPA: 3.90 / 4.30, ranking 5<sup>th</sup>/98

## SIDE PROJECTS

- Unshaky (Link, Github 823 stars) • macOS/Swift/Obj-C/Cocoa • A macOS application to address the "double key press" issue on Apple's butterfly keyboard.
- Goosi (Link) • iOS/Swift • A powerful & modern Backblaze B2 Client for iOS.
- Chekin (Link) • Website/React & iOS/Android/React Native • A solution to check student ID during the exams using OCR with smartphones.
- Send2Phone • WP/C#/PHP/MySQL • A Windows Phone App to enable users save a webpage from Chrome to their Windows Phones
- Cool Editor (Link, Github) • WP/C# • A code editor with code highlight feature for Windows Phone
- CityU Sports Facility (Links: (Github) iOS | Android) • iOS/Obj-C & Android/Java • An app to help students to make a booking on sports facilities in campus and manage bookings
- More open source projects at <https://github.com/aahung>

## AWARDS & SCHOLARSHIPS

2017	Institutional	International Tuition Award, UBC
2016	Gold Prize	JOS Innovative IT Project Awards, Hong Kong
2015	Bronze Medal	The ACM-ICPC Asia Regional Contest - Beijing Site
2012-16	Departmental	4 times on the Dean's List, EE, CityU
2012-16	Departmental	2 times Outstanding Student Award, EE, CityU
2015	Provincial	Talent Development Scholarship, HKSAR Gov
2014	Team 3 <sup>rd</sup> Prize	Intel Cup Embedded System Design Invitation Contest
2013	1 <sup>st</sup> /14 (Junior)	Computer Science Programming Contest, CityU
2012-16	Institutional	CityU Mainland Student Scholarship, CityU