

# Xinyu ZHU

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## EDUCATION

### Carnegie Mellon University

Pittsburgh, Pennsylvania

Master of Science in Information Technology - Information Security

Aug 2018 – Jun 2020

### Hong Kong University of Science and Technology

Hong Kong, China

Bachelor of Science – Computer Science and Mathematics

Sep 2014 – May 2018

GPA: 3.843/4.3

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## SKILLS

**Application Software:** Tableau, MS SQL Server, MongoDB, Github, Android Studio, Eclipse, Visual Studio

**Programming Languages:** Python, Java, C/C++, HTML, JavaScript

**Languages:** English (Fluent), Mandarin (Native Speaker), Cantonese (Native Speaker)

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## ACADEMIC RESEARCH EXPERIENCE AND PROJECTS

### Personal Financial Assistant

July 2018

Personal Open Source Project

HKUST, Hong Kong

- Built an AES encryption interface upon MongoDB database to consolidate the security of users' financial data
- Provided informative data visualization to facilitate financial history summarization and mining process for users

### BitExTract: Interactive Visualization for Extracting Bitcoin Exchange Intelligence

Nov 2017 – May 2018

Final Year Project ♦ Best FYP award ♦ Paper publication ♦ Supervisor: Huamin QU

HKUST, Hong Kong

- Built a systematic GUI blockchain data crawler to guarantee the efficiency and reliability of data collection process
- Applied data pre-processing, data analysis and visual mining on the raw data to enlighten the research direction
- Designed and implemented the visualization system pipeline with others to enhance the visualization performance

### Outdoor RSSI-based mobile target localization and tracking

Sep 2015 – Dec 2016

Undergraduate research opportunity program ♦ Supervisor: Shueng-Han Gary Chan

HKUST, Hong Kong

- Conducted research on signal-based localization solutions, designed and tested a series of functionable localization algorithms to reduce the affection of environmental noise
- Constructed a whole system including modules for data collection, data retrieval, localization and visual tracking

### Online team forming Webapp/MobileApp

Sep - Dec 2016

Honors Software Engineering Course Project ♦ Ranked 1<sup>st</sup> in the class Supervisor: Sung Kim

HKUST, Hong Kong

- Worked as the team leader to assign the tasks, motivate team members and monitor the development process
  - Built responsive webpages using Bootstrap and Materialize framework to fit the app into different screens
  - Integrated AngularJs and firebase database to ensure efficient data binding and the reusability of templates
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## HONORS & LEADERSHIP

**Tuition scholarship**, Information Networking Institute, CMU

2018-2019

**Professor Samuel Chanson Best FYP award**, CSE Department of HKUST

May 2018

**HKUST outstanding graduate student honor**, HKUST

May 2018

**Second runner up for Hackathon@UST 2018**, HKUST

Apr 2018

**Student Career Mentor**, Heshan No.1 Senior High School

2017-2020

**The Hongkong Electric Co. Ltd. Scholarship**, The Hongkong Electric Co Ltd

2016-2017

**Second prize in Microsoft Summer Camp**, Microsoft MSRA

July 2016

**Scholarship Scheme for Continuing Undergraduate Students**, HKUST

2015-2018

**Dean's List Honor**, School of Engineering of HKUST

2014-2018

**University Scholarship**, HKUST

2014-2015

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## PUBLICATIONS

Yue Xuanwu, Zhu Xinyu, Du Xinnan, Yu Zheqing, Shu xinhuan. "BitExTract: Interactive Visualization for Extracting Bitcoin Exchange Intelligence", *IEEE Transactions on Visualization & Computer Graphics*. [Accepted, to be published]