Xin Tong

COMPUTER SCIENCE RESEARCHER · SOFTWARE ENGINEER

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Education

New York University Abu Dhabi (NYUAD)   *Abu Dhabi, UAE*

B.S. COMPUTER SCIENCE, APPLIED MATHEMATICS & INTERACTIVE MEDIA minors   *Expected May 2019*

- Major GPA: 4.0/4.0, Cumulative GPA: 3.941
- Studied away at the New York campus in Spring and Fall, 2017

Research Experience

Undergraduate Capstone Research, NYUAD (Prof. Jay Chen)   *Abu Dhabi, UAE*

RESEARCHER   *Mar. 2018 - Present*

- Design and implement a blockchain-based distributed storage system, using *Proof of Replication / Data Possession* schemes
- Create a decentralized discussion forum application on top of the storage system, in support of Internet freedom of speech

Secure Systems Lab, NYU Tandon (Prof. Justin Cappos, Albert Rafetseder)   *New York, US*

SUMMER RESEARCH INTERN   *Jun. - Aug. 2017*

- Developed a Distributed Hash Table (DHT)-based information advertise and lookup library for *Seattle Testbed*, a cloud computing platform for networking and distributed systems research
- Programming language: Python; tools: Git, SSH, Wireshark

Work Experience

WeChat, Tencent (Mini Program Team)   *Guangzhou, China*

SOFTWARE ENGINEERING INTERN   *Jun. - Aug. 2018*

- Developed real-time, multiplayer game prototypes using the *Mini Game* framework (language: JavaScript; HTML5 game engine: Layabox)
- Expanded the *Mini Program/Game* library by adding APIs to support the latest networking, file storage and multimedia features, such as VoIP chat within mini games
- Solved issues raised by developers on the *Mini Program* community forum

BiggerLab, Pre-College Computer Science Education Startup   *Shanghai, China*

TEACHING ASSISTANT, SUMMER INTERN   *Jun. - Aug. 2016*

- Served as teaching assistant for lessons on *Arduino*, the *Processing* Java graphical library, and iOS development (15-20 high school students per class, 2 classes)
- Wrote Chinese tutorials on programming with Arduino and Processing
- Organized and led coding workshops in collaboration with popular hackerspaces in Shanghai such as *Xinchejian*

Skills

Programming   **languages:** Java, Python, JavaScript, C, C++, GLSL, LaTeX   **Web:** React, HTML5, CSS3, WebGL, Node.js
Dev Tools   Linux, Bash, Git, Vim

Open Source Projects

2018	Operating Systems class projects	*[code]*
2018	Chordinate, a React Native app for practicing chord progressions	*[code]*
2017-18	Web Development for *the Gazelle*, student publication website at NYUAD	*[contributions]*
2017	Advertise DHT, distributed advertise methods for Seattle *RepyV2* library	*[code] [poster]*
2017	Acamaniac, an academic schedule planner for NYUAD students	*[code] [demo]*
2017	*Dynamic Web Applications* class projects	*[code]*
2016	Audio Wave, a Web Audio visualizer	*[code] [demo]*

Extracurricular

NYUAD Women's Intercollegiate Basketball

TEAM MEMBER   *Sep. 2015 - May 2016, Sep. 2018 - Present*