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

Areas of Interest

File and Storage Systems, Distributed Systems and Networking, Information Systems and Data Analytics

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

2015-16, 2018	NYUAD Women's Intercollegiate Basketball *Team Member*