Xin (Cynthia) Tong

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Education

New York University Abu Dhabi   Graduating May 19
B.S. Computer Science, minors in Applied Mathematics, Interactive Media
Major GPA: 4.00/4.00   Cumulative GPA: 3.94
Recipient of four-year full scholarship. Studied in Abu Dhabi (15-16, 18-19) and New York (17).

Technical Skills

Programming Languages: [proficient] Java, JavaScript (ES6+), Python   [knowledge] C, C++
Web Dev: HTML5 & CSS3, React, Node.js (Express)   **Visualization Libraries:** p5.js, D3.js, Three.js
Dev Tools: Linux, Git, Vim

Work Experience

WeChat, Tencent   Software Engineer Intern (Web Development track)   ⊙ Guangzhou   June – Aug 18
- Mainly contributed to the Mini Game framework by developing multiplayer game prototypes that utilize lockstep / frame-sync network infrastructures, and emphasize the social ability of WeChat groups.
- Contributed to developing the Mini Program / Mini Game library by adding APIs that support features such as VoIP chat within Mini Games.
- Solved issues and added new features based on feedback from the Mini Program developer community.

Secure Systems Lab (SSL), New York University   Summer Research Intern   ⊙ New York   June – Aug 17
- Contributed to *Seattle Testbed*, an open-source cloud computing platform for networking and distributed systems research, by developing a data advertisement and lookup system with Distributed Hash Table (DHT)

BiggerLab (必果科技)   Tech Intern, Instructor   ⊙ Shanghai   June – Aug 16
- Taught and wrote tutorials on Arduino and Processing at the Shanghai-based startup
- Collaborated with maker spaces such as Xin Chejian (新车间) on organizing coding workshops

Projects

BitTorrent Distributed Hash Table (DHT)   June – Aug 17
- Implemented a BitTorrent Distributed Hash Table (DHT) in Python for *Seattle Testbed*
- Socket Programming: established UDP connections with public BitTorrent tracker nodes
- Ported and used the ed25519 public key system and SHA-512 crypto hash algorithm
- Practiced OOP principles and developed unit tests for DHT components

The Gazelle (https://thegazelle.org)   Oct 17 – Feb 18
- Member of the web development team at the Gazelle, NYU Abu Dhabi weekly student publication
- Contributed to the Gazelle websites' React and Node.js codebase

Relevant Coursework

CS: Data Structures, Algorithms, Computer Systems, OS, Computer Networks, Software Engineering
Math: Discrete Mathematics, Linear Algebra, Calculus with Application, Multivariable Calculus
Web: Mashups: Creating with Web APIs, Dynamic Web Applications, Drawing on the Web

Additional Info

Languages: English (TOEFL 115), Mandarin
Personal Interests: Basketball and other ball games, wood craft / sculpture