Xin (Cynthia) Tong

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Education

New York University Abu Dhabi

Graduating May 19

B.S. Computer Science, minors in Applied Mathematics and Interactive Media

Major GPA: 4.00/4.00 Cumulative GPA: 3.93

Recipient of four-year full scholarship. Based in Abu Dhabi (15-16, 18-19) and New York (17).

Technical Skills

Programming Languages: [proficient] Java, Python, JavaScript (ES6) [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

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 & Hackathon

BitTorrent Distributed Hash Table (DHT)

June - Aug 17

- Implemented a BitTorrent Distributed Hash Table (DHT) in Python for Seattle Testbed
- · Practiced socket programming; established UDP connections with public BitTorrent tracker nodes
- Ported and used the ed25519 public key system and SHA-512 crypto hash algorithm
- Followed 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

Dynamic Web Projects

Jan – May 17

- Built websites using React and Vue.js, Node-Express backend and small databases
- Practiced web scraping with Python Flask and data visualization with p5.js and D3.js

NYUAD Hackathon First Place

Nov 16

- · Contributed to building a site that calculates users' carbon footprint based on their past travel destinations
- Built the back-end and database with Node.js; co-designed the front-end layout

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, Wood Craft/Sculpture, Holiday Work Exchange