

Xin (Cynthia) Tong

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Education

New York University

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 Skills: [proficient] Java, Python, JavaScript (ES6), Git [knowledge] C, Linux

Web Dev: HTML5 & CSS3, React, Node.js (Express)

Visualization & Prototyping: p5.js, D3.js, Three.js, Adobe Illustrator, Blender, Arduino

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
- Cooperated with maker spaces such as Xin Chejian (新车间)

Projects & Hackathon

BitTorrent Distributed Hash Table (DHT) Summer 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

The Gazelle (<https://www.thegazelle.org/>) Fall 17 – Now

- Member of the development team at the Gazelle, NYU Abu Dhabi weekly student publication
- Currently contributing to the Gazelle websites' React and Node.js codebase on Github

Dynamic Web Projects Spring 17

- Built websites using React and Vue.js, Node-Express backend and MongoDB
- 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 and CouchDB; co-designed the front-end layout

Relevant Coursework

Data Structures, Algorithms, Computer Systems Organization, Discrete Mathematics, Linear Algebra, Calculus with Application, Mashups: Creating with Web APIs, Dynamic Web Applications

Additional Info

Languages: English (TOEFL 115), Chinese

Personal Interests: Varsity Basketball, Wood Craft/Sculpture, Holiday Work Exchange