Xin (Cynthia) Tong

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Summary & Objective

I am a third-year Computer Science student concentrating on full-stack web development and software engineering. I am looking for engineering internships in the tech industry for summer, 2018.

Education

New York University   Graduating May 19
B.S. Computer Science, Interactive Media/Visual Arts double major
Major GPA: 4.00/4.00   Cumulative GPA: 3.92 (top 8%)
Recipient of four-year full scholarship. Studied in Abu Dhabi (15-16) and New York (17).

Technical Skills

Programming Skills: [proficient] Java, Python, JavaScript (ES6+), Git   [knowledge] C, C++, Objective-C
Web Dev: HTML5 & CSS3, React, Vue.js, Node.js, p5.js, D3.js, Three.js
Visualization & Prototyping: Adobe Illustator, Inkscape, 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, Processing, and iOS development at the Shanghai-based startup
- Cooperated with maker spaces such as Xin Chejian (新车间).

Hackathon & Projects

BitTorrent Distributed Hash Table (DHT)   📍 New York   Summer 17
- Implemented a BitTorrent Distributed Hash Table (DHT) in Python for *Seattle Testbed*
- Practiced socket programming; established UDP connections with public BitTorrent nodes
- Ported and used the ed25519 public key system and SHA-512 crypto hash algorithm

Dynamic Web Projects   📍 New York   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   📍 Abu Dhabi   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 and Algorithms, Computer Systems Organization, Discrete Mathematics, Linear Algebra
Mashups: Creating with Web APIs, Dynamic Web Applications, Drawing on the Web

Additional Info

Languages: English (TOEFL 115), Chinese
Personal Interests: Varsity Basketball, Holiday Work Exchange, Wood Craft/Sculpture