

Shang-Hung (Sean) Tsai

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EDUCATION

New York University; New York, NY

Expected December 2018

Master of Science, Computer Science

GPA: 3.9/4.0

Coursework in Algorithms, Operating Systems, Database System, Computer Networks, Network Security

Boston University; Boston, MA

May 2016

Bachelor of Arts, Economics, Minor in Computer Science, Summa Cum Laude

GPA: 3.93/4.0

Coursework in Algorithms, Discrete Math, Software Engineering, Distributed Systems, etc.

Honors: Dean's List (Every semester from 2012-2016)

TECHNICAL SKILLS

- **Programming Languages:** Java, C, Python, Go, JavaScript, SQL
 - **Web App Development:** Git/Github, Node.js, Angular.JS, MongoDB, Express, HTML, CSS
 - **Computer Networks:** TCP/IP, Socket programming, Wireshark, tcpdump, Docker, Quagga
 - **Operating Systems:** Windows, Mac OS, Linux
 - **Languages:** Native Mandarin, Native Taiwanese, Fluent English
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WORK EXPERIENCE

High Speed Networking Lab at NYU; Brooklyn, NY

September 2016 – December 2016

Graduate Research Assistant

- Provided testing design for a research project on building a fast network failure recovery routing system
- Implemented a simulated network environment using docker containers and Quagga routing suite, and developed test cases using socket programming
- Performed various experiments regarding connectivity and speed, and provided performance analysis based on the test results and benchmarks

Boston University Department of Computer Science; Boston, MA

September 2015 – May 2016

Database and Data Mining Course Assistant

- Reviewed 100 weekly assignment submissions related to Python, SQL, and other database principles and data mining techniques
- Tutored undergraduate students on questions regarding database and data mining assignments

China Everbright Bank; Haikou, China

May 2014 – July 2014

Corporate Banking Summer Intern

- Organized and prepared reports and documents regarding domestic clients for weekly meetings using Excel
 - Diagnosed and resolved technology related problems, and provided IT supports at the branch
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PROJECTS

WikiGeo (Javascript, Node.js, Angular, Express, MongoDB)

January 2016 – May 2016

- Led the development of a MVC web application using MEAN stack with a team of four
- Delivered an app that searches for Wikipedia articles that have geographic coordinates within the user's search area and display the query results on an interactive map by utilizing Google Map and MediaWiki APIs

Ecommerce Order Parser (Python)

February 2017

- Completed an independent project on building programs that convert online orders (in .xls format) from various ecommerce platforms into one uniform and clean format using Python
- Added functionalities that allow users to combine orders from the same buyer, categorize orders by payment method, merge multiple orders from different platforms into one output file, and more