

Thomas James Westfall III

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EDUCATION

The City University of New York Hunter College - New York, NY

B.A. expected: May 2021

Major: *Computer Science*

GPA: 3.7

Minor: *Chinese*

Relevant Courses:

Introduction to Python

Calculus I & II

Discrete Structures

Computer Architecture I & II

Matrix Algebra

Data Structures & Algorithms I, II, III

Applied Statistics

Computer Theory I

Operating Systems

SKILLS

Programming Languages: C++, JavaScript, Python, Java

Technologies: Git, HTML, CSS, React, Node, Express, Redux, PostgreSQL, Sequelize

Operating Systems: Windows, Linux, macOS

Languages: Fluent in Mandarin and English

HONORS

Dean's List: *Fall 2017, Spring 2018, Fall 2018, Spring 2019*

Scholarship: *Daedalus Honors Computer Science Scholar*

August 2017 – May 2021

EXPERIENCE

Web Developer | *Hunter Chinese Language Flagship – Hunter College, New York, NY*

April 2019 - Present

- Create and modify webpages on the Flagship Program's website designed to teach students Chinese using React, JavaScript, HTML and CSS.
- Convert existing Flash modules into HTML, CSS, and JavaScript onto the program's website.

Participant | *CUNY 2X Tech Talent Pipeline Pilot Program – Hunter College, New York, NY*

July - August 2019

- Completed 6-week intensive program consisting of data structures & algorithms prep and a fullstack web development bootcamp, learning in-demand technologies such as React, Node, Express, Redux, PostgreSQL, and Sequelize.
- Worked with other program participants to develop fullstack web applications in order to demonstrate mastery of skills learned throughout the program.

PROJECTS

Globe Chat | *JP Morgan Chase & Co. Code for Good*

September 2019

- Worked with a group of 4 others and the Global Nomads Group nonprofit to create a web application designed to allow users around the world to anonymously video chat and share their stories.
- Created an Express server to call the Twilio Programmable Video REST API, which was used to create, join, leave, and remove video chat rooms.
- Designed the frontend portion of the application using React, JavaScript, HTML and CSS.

vPay | *CUNY 2X Tech Talent Pipeline Pilot Program Capstone*

August 2019

- Created a web application with a team of 3 using JavaScript to allow users to upload a photo of a restaurant receipt and split the bill among users by food ordered, tip and tax percentage.
- Used the Taggun API to retrieve text from the uploaded receipt and then parsed it by individual food item.
- Used Express to handle PayPal API calls, allowing users to pay orders and cash their balance out.

Campus Manager | *CUNY 2X Tech Talent Pipeline Pilot Program*

August 2019

- Worked with a group of 3 others to develop a RESTful web application that demonstrates basic fullstack capabilities, covering all CRUD operations with campus and student objects.
- Created, seeded, and deployed a PostgreSQL database to hold existing campuses and students.
- Created a Redux store to handle CRUD operations between deployed database and frontend.

NYC Open Data Analysis Projects | *Data Structures & Algorithms III*

April – May 2019

- Used an AVL tree to parse and analyze NYC Open Data's 2015 Street Tree Census Data, allowing the user to search for trees by species, zip code, and latitude/longitude.
- Implemented a hash table and disjoint set using parent trees to parse and analyze Open NY Initiative's Subway Entrance and Exit Data, allowing the user to find the nearest station, entrance/exit, and line.