

Kaixuan Zhou

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EDUCATION

New York University Tandon School of Engineering

Sep. 2017 - May 2020

BS in Computer Science, GPA 3.97/4.00

Minors in Mathematics and Game Engineering

Relevant Coursework: *Operating System, Computer Architecture and Organization, Database, Algorithms, Data Structures (Python), Object Oriented Programming (C++), Game Programming, Data Analysis*

SKILLS: Python, Flask, C++, OpenGL, JavaScript, Node.js, React, HTML5, CSS, SQL, Swift, Git

WORK EXPERIENCE

Computer Science Tutor, NYU Tandon Polytechnic Tutoring Center, Brooklyn, NY

Jan. 2019 – Present

- Hold walk-in tutoring session for Intro to Programming, Data Structure and Object-Oriented Programming.
- Prepare mock exam questions for exam review sessions.

Research Assistant, NYU Tandon, Brooklyn, NY

Jan. 2019 – Present

- Recreate and craft a model for intersection cache for web search engine using C++.
- Test and analyze new cache model's efficiency with modern datasets.
- Research about accurately finding out conjunctive query results through intersection caches.

Teaching Assistant, NYU Tandon, Brooklyn, NY

Sep. 2018 – Jan. 2019

- Discrete math teaching assistant. Duties include holding office hours, grading, and designing exam questions

Web designer & Software Developer, DigiStrips, New York, NY

May. 2018 – July. 2018

- Redesigned the company website with Go-Daddy Website Builder along with *HTML5* and *CSS*.
- Built the iOS app prototype in *Swift* from scratch; Worked closely with the co-founders regarding the needs for the app. The prototype was used in two live-demo sessions and a pilot testing for ten customers.

Software Engineer Intern, uStart.today, Brooklyn, NY

Jan. 2018 – May. 2018

- Built the prototype of the chat feature of the web app in a team of five with a mentor used *Golang* and *Socket.io*.
- Wrote *jQuery* (*AJAX*) for some full stack tasks.

PROJECTS

Trip Split (team lead) | JQuery, Node.js, NPM, Webpack

Feb. 2019 – Present

- Support expense split among groups of friends. Identify the expense sheet through URL and optional password.
- Enable customized URL for each expense sheet; Utilize local storage to support fast creation of expense sheet.
- Plan to enable the generation of expense graph with a third party library Chart.js.

Anime Data Visualization (personal) | Python, Matplotlib, Jupyter Notebook, MySQL

Feb. 2019 – Present

- Crawled 5M video information from www.bilibili.com using Python; stored the data into database using MySQL.
- Exploring the hidden pattern; Visualizing the data using Matplotlib.

Wise Classes (team) | Node.js, React.js, MySQL <https://zhiclassses.com>

Jan. 2018 – Present

- Provides academic information for NYU students; Students can upload reviews for each course.
- Crawled the NYU courses website (NYU Albert) into database with *Python* and *MySQL*.
- Transferring the front-end from *HTML5*, *CSS* and *JavaScript* to *React.js*.
- Optimizing the search performance in the web app using *Node.js* and *MySQL*.

PriCoSha (academic) | JQuery, Bootstrap, MySQL, Flask

Nov. 2018 – Dec. 2018

- Developed a web app that allows users to privately share contents (image, video, etc) among groups of people.
- Implemented social media platforms' ideas of tag, rate, add/delete friends, and join/quit friend groups.