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

SKILLS

Programming and Development: Python • C++ • JavaScript • SQL • React • Node.JS • HTML5 • CSS • Git
Communication and Language: Mandarin • Cantonese

WORK EXPERIENCE

Research Assistant, NYU Tandon, Brooklyn, NY   Jan. 2019 – Present
- Recreate a model for intersection cache for web search engine using C++.
- Test new cache model's efficiency with different datasets with over ten million queries and 2 million documents.
- Research about finding out conjunctive query results through intersection caches.

Computer Science Tutor, NYU Tandon Polytechnic Tutoring Center, Brooklyn, NY   Jan. 2019 – Present
- Hold walk-in tutoring session for Data Structures and Algorithms and Object-Oriented Programming.
- Prepare mock exam questions for exam review sessions.

Teaching Assistant, NYU Tandon, Brooklyn, NY   Sep. 2018 – Jan. 2019
- Worked as an undergraduate teaching assistant for discrete mathematics. Duties include holding office hours, grading, and designing exam questions

Web designer & Software Developer, DigiStrips, New York, NY   May. 2018 – July. 2018
- Worked part-time in customer discovery team; participated in more than 40 customer discovery interviews.
- Took charge of building the IOS app prototype in *swift and* redesigning the company website.

PROJECTS

Course Scheduler (personal) | React.Js & Material UI, Express(Node.Js), MySQL   Nov. 2018 – Dec. 2018
- Worked with a team of 2 and developed a web app that allows users to search courses and auto generate a time table based on users' selections.
- Crawled the NYU courses website (NYU Albert) into database with Python with 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/de friends, and join/quit friend groups.

50 Words Everyday (personal) | Flask, MySQL   July. 2018 – Aug. 2018
- Built a web app to allow Chinese users to learn GRE vocabularies and prepare for the GRE test better.
- Enabled two modes for memorizing vocabularies; Allow users to download/make word collections.

U.Start (academic)| Go   Feb. 2018 – May. 2018
- Learned Go's syntax; participated in using Go and socket.io to build the prototype of the chat feature of the web app in a team of five with a mentor.

LEADERSHIP & ACTIVITIES

Active Member and Back-End Engineer, NYU CSSA, Brooklyn, NY   Sep. 2017 – Present
- Currently building a web application that provides academic information for NYU students, written in Node, React and MYSQL.
- Worked as a back-end engineer (*Node.Js*) to better handle users' search queries and improve website performance.