Joseph Kracz

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Education

New York University, Brooklyn, NY   (May 2019)
Bachelors of Science in Computer Engineering   GPA: 3.18

Skills

- Proficient Programmer
  - Languages: Java, Python, C++, SQL, C, mnemonic machine language, HTML, CSS
- Developer Environments
  - NetBeans, Visual Studio, Arduino, Xcode, IntelliJ Idea
- Relevant Courses: Object-oriented Programming, Data Structures & Algorithms, Computer Architecture & Organization, Operating Systems, Introduction to Databases
- Software
  - MS SQL Server Studio, Github Desktop, Autodesk Inventor, LabVIEW

Experience

- **Consolidated Edison Company of New York** – *Engineering Aide*   (June 2017 – present)
  - Write and execute SQL queries, and managing tables in MS SQL Server Studio
  - Developed a Java program that sorts through of data files, analyzes and modifies the data, and inserts it directly into the company database. The program utilizes multi-threading and scheduled executor services to facilitate data and file management
  - Write scripts using Python to parse through large files and analyze data to determine patterns
  - Worked to find suitable power solutions for an electrical structure monitoring device, and helped redesign the device itself to better suit the needs of the department
- **NYU General Engineering Dept.** – *Deputy of Research & Development*   (March 2017 – present)
  - Rapidly design, prototype, and test new technologies and ideas so that they may be integrated with the department
  - Organize and lead Research and Development committee employees, and oversees new projects in the department
  - Create and maintain semester long design project options for first-year students
  - Repair and improve of all lab equipment within the department
- **NYU General Engineering Dept.** – *Teaching Assistant*   (May 2016 – present)
  - Lead first-year students at the NYU Tandon School of Engineering through STEM-based labs and workshops

Personal Project Work

- Worked with the General Engineering Department to develop and manufacture a robotics track for first-year students that utilizes Arduino microcontrollers, Vex DC motors, and hall effect sensors to control obstacles throughout the structure
- Created a multi-client chat server using multi-threading and networking techniques in Java
- Collaborate with the General Engineering Department to develop and build autonomous drones to be on display in the main foyer of NYU's engineering school (in progress)
- Used HTML and CSS to make a resume website with the intent to display any projects and assignments that demonstrate my coding abilities (URL: https://jkracz.github.io/josephkracz)

Leadership Experience

- Othmer Hall Council President — New York University   (September 2015 – May 2016)
  - Worked in conjunction with other hall directors to events in and for the residents of Othmer residence hall
  - Collaborated with New York University administration and the Inter Residence Hall Council to plan university-wide events
- Project OutReach Peer Mentor – New York University   (August 2016-present)
  - Chosen to be one of twenty peer mentors in charge of leading incoming freshmen through a full week of community service in and around New York City
- Intersections Leader – New York University   (April 9 – April 10 2016)
  - One of 60 students chosen to attend a conference to build emotional intelligence and leadership skills
- Student of Potential – New York University   (November 2015)
  - Part of a group of under 200 first-year students recognized for having outstanding leadership qualities and a dedication to hard work