

Michael Giannella

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📍 Greater NYC Area

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EDUCATION

- **Rutgers University**

New Brunswick, NJ

Sep 2017 - May 2021

Bachelor of Science in Computer Engineering

- Engineering Honors Academy
- Cumulative GPA: **3.86**, Major GPA: **4.0**
- James Dickson Carr Merit Scholarship Recipient
- Dean's List: Fall 2017, Spring 2018, Fall 2018, Spring 2019

EXPERIENCE

- **Prudential Global Investment Management - Investments Technology**

Newark, NJ

Jun 2019 - Aug 2019

Application and Systems Development Associate

- Collaborated with a team of developers to design a .NET Core web API that calculates dividend dates based on fund attributes and user input.
- Developed ETL processes using Informatica to validate and load data from over 250 funds from flat files into Microsoft SQL tables.
- Designed table schema for project to make use of global Master Data Management schema.
- Streamlined reporting of Team Foundation Services releases and Windows Server vitals by creating PowerShell scripts.
- Administrated Windows Servers in development, QA, and UAT environments and carried out administrative tasks, such as certifying user access.

PROJECTS

- **Jukebox**

Collaborative Music Queue

github.com/mgiannella/jukebox

- Developed in under 24 hours at HackRU Spring 2018 with a team of two other students. This python web app allows users to add songs and up/downvote for what will be played next through the BOSE Soundtouch speaker.
- Implemented the user interface using HTML/CSS and the Jinja template engine and created routes in the Flask backend to handle user requests and connect to the Spotify API.
- Presented to BOSE team and judges at the hackathon.

- **S.W.I.S. - Smart Water Irrigation System**

Automated Plant Watering System

- Collaborated with a team of five other students to create a prototype using an Arduino microcontroller, moisture sensor, and a pump that automatically waters a plant based on moisture level in soil.
- Authored the code to be run on the Arduino and constructed the prototype.
- Presented the project in front of a large class and a panel of deans and faculty.

- **Rutgers Dining Hall Nutrition Info Scraper**

Scrapes Nutrition Information from Rutgers Website

github.com/mgiannella/ru-dh-scraper

- Developed the script as a personal project using Python with BeautifulSoup4 and requests to retrieve and parse nutritional facts.
- Accelerated the program using multithreading to retrieve the nutritional facts in a timely manner.
- Stored the information in a legible json format, for use in other applications.

VOLUNTEER EXPERIENCE

- **Rutgers IEEE**

N2E Python Instructor

New Brunswick, NJ

Sep 2018 - Present

- Taught beginner and intermediate level Python to undergraduate students and alumni.
- Developed curriculum, as well as projects and examples to aid in teaching.
- Fielded students' questions, even if they were outside the scope of the course.

SKILLS & TECHNOLOGIES

- **Programming Languages:** Python, Java, C, C#, HTML, CSS
- **Technologies:** Git, Flask, REST, Informatica, Microsoft SQL Server, Bootstrap