Michael Giannella

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 Greater NYC Area
 mgiannella

EDUCATION

- **Rutgers University** — New Brunswick, NJ
  Bachelor of Science in Computer Engineering — *Sep 2017 - May 2021*
  - Engineering Honors Academy
  - Cumulative GPA: **3.86**, Major GPA: **3.86**
  - James Dickson Carr Merit Scholarship Recipient
  - Dean's List: Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020
  - **Relevant Coursework:** Data Structures & Algorithms, Computer Architecture, Systems Programming, Discrete Mathematics, Probability, Multivariable Calculus, Differential Equations, Software Engineering

EXPERIENCE

- **Amazon - Alexa Benchmarking Infrastructure** — Sunnyvale, CA (Remote)
  Software Development Engineer Intern — *May 2020 - Aug 2020*
  - Engineered a pipeline using AWS S3, CloudWatch, Redshift, and Lambda to gather regular business metrics and created a view to display them using Tableau.
  - Centralized reporting processes to one tool, and created a model that can be used for future metrics.
  - Collaborated with other teams to create this project which will serve as a model for business metrics warehousing and visualization across the organization.
  - Lessened time spent gathering metrics and increased the regularity of aggregation, saving upwards of 30 hours a year.
  - Showcased project to team and business leaders to demonstrate functionality and authored documentation for usage and continuation of the project.

- **Prudential Global Investment Management - Investments Technology** — Newark, NJ
  Application and Systems Development Associate — *Jun 2019 - Aug 2019*
  - 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.
  - 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.

SKILLS & TECHNOLOGIES

- **Programming Languages:** Python, Java, C, C#, HTML, CSS, SQL
- **Technologies:** Git, Flask, REST, Spring, AWS, Bootstrap, Django, Serverless

PROJECTS

- **Student Housing Solution**: Application using Spring Boot and React to facilitate sourcing and renting off campus housing on both the tenant and landlord side. Allows for payments, maintenance requests, as well as finding/listing properties and scheduling visits.
- **Jukebox**: Collaborative music queue developed in Python using Flask, to allow users to add songs and up/downvote for what will be played next through a BOSE SoundTouch speaker. (github.com/mgiannella/jukebox)
- **Rutgers Dining Hall Nutrition Info Scraper**: Script developed in Python using beautiful soup to retrieve and parse every dining hall's nutritional facts into a structured json file. (github.com/mgiannella/ru-dh-scraper)

VOLUNTEER EXPERIENCE

- **Rutgers IEE** — New Brunswick, NJ
  N2E Python Instructor — *Sep 2018 - Present*
  - Developed curriculum and taught beginner and intermediate level Python to undergraduate students and alumni.

- **Rutgers Honors Academy Networking Committee** — New Brunswick, NJ
  Founding Member — *Sep 2019 - Present*
  - Collaborated with administration and a group of 5 other students to develop a committee which created and ran a virtual information session for the Rutgers University Engineering Honors Academy prospective freshman.