

Jonathan Hercules

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Education

University at Buffalo

Buffalo, NY

Bachelor of Science in Computer Science, Cum Laude 3.30 GPA

September 2016 - May 2020

- **Relevant Courses:** Multivariable Calculus, Algorithm Analysis, Data Structures, Discrete Structures, Data Mining, Probability Theory, System Administration, Software Engineering Concepts, Machine Learning (Currently)
- **Dean's List Recipient:** Spring 2017, Fall 2019

Technical Skills

- **Programming Languages:** Python, C/C++; familiar with HTML, CSS, JavaScript, SQL
- **Technologies:** GitHub/Git, Visual Studio Code, Microsoft Excel, Microsoft PowerPoint, Microsoft Office, Linux/Unix, Windows, Agile Development

Experience

Biostatistics, Epidemiology, and Research Design Winter Institute

Dec. 2019 - Jan. 2020

Research Assistant

Buffalo, NY

- Participated in a research program supported by the UB Clinical and Translational Science Institute (CTSI) and culminated a project guided by Professor Guan Yu.
- Focus was on analyzing and comparing the performance of different regression models based upon the association of weather conditions with the number of bicycles over New York City bridges.
- Exposed to a variety of statistical techniques and applied them with R/RStudio in accordance with the project.

University at Buffalo Tutoring and Academic Support Services

Sept. 2019 - Present

Academic Tutor

Buffalo, NY

- Provided academic support in 7 different undergraduate courses such as statistics and computer science.
- Hosted weekly 1 on 1 study sessions available to any student in the undergraduate student body.
- Conducted more than 90 sessions with students and documented their progress throughout the semester.

Hunter James Kelly Research Institute

Sept. 2019 - Present

Information Technology Management Intern

Buffalo, NY

- Monitored user traffic with Google Analytics to examine the social outreach of the research institution.
- Undertook a project with the research administrator to implement a lab scheduling platform to enhance daily operations and ultimately attempt to minimize administrative costs.
- Updated the institute's website with a web management system utilized and sponsored by the university.

Projects

Qualitative Bankruptcy, Python, Matplotlib, Supervised Learning, Classification

November 2019

- Constructed a model using a Decision Tree Algorithm for a dataset that comprised of 200+ financial institutions to accurately predict whether one of them goes bankrupt or not.

CropShop, Android Studio, Firebase, XML, Java, Agile Development, Scrum

Sept. 2019 - Dec. 2019

- Collaborated with a team of developers to construct an Android application to act as a new platform for farmers/sellers to connect with local communities.

Extracurricular

Organizations: Association of Computing Machinery (Active Member), Society of Hispanic Professional Engineers, University at Buffalo's Career Services (Volunteer for STEAM Career Fair)