

Jonathan Hercules

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Education

University at Buffalo

Buffalo, NY

Bachelor of Science in Computer Science, *cum laude* (GPA:3.3/4.0)

September 2016 - May 2020

Relevant Courses: Algorithm Analysis, Data Structures, Linear Algebra, Data Mining, Probability Theory, System Administration, Software Engineering, Machine Learning, Operating Systems, Programming Languages

Technical Skills

Languages: Python, Java, (familiar): HTML/CSS, JavaScript, SQL, C/C++

Technologies: GitHub/Git, Visual Studio Code, Microsoft Excel, Linux/UNIX, Windows, Agile Development, Docker, Amazon Web Services (AWS), JIRA, Scrum, Confluence

Experience

Centene Corporation

May 2020 - Present

Software Engineering Intern, Claims Nextgen

Buffalo, NY

- Developed a tool to integrate third party tools for ongoing projects by automating the process of pulling Docker images and pushing them into the appropriate AWS Elastic Container Registry.
- Reduced the amount of time for developers to get third party tools into development, testing, and production.
- Obtained experience working in a Cloud-based environment alongside accompanying developers and architects.
- Leveraged knowledge in Agile, Git, Python, Docker, AWS specifically CloudFormation, S3, CodeBuild, CodeCommit, ECR, and IAM.

University at Buffalo Tutoring and Academic Support Services

September 2019 - May 2020

Academic Tutor

Buffalo, NY

- Provided academic support in 7 different undergraduate courses by hosting weekly 1 on 1 tutoring sessions.
- Conducted more than 100 sessions and documented students' progress throughout the academic semesters.
- Courses include the following: Intro to Computer Science, Calculus, Statistics, and Discrete Structures.
- Instructed students in Computer Science on projects that required Python, JavaScript, AJAX, SQL, and HTML.

Biostatistics, Epidemiology, and Research Design Winter Institute

December 2019 - January 2020

Research Assistant

Buffalo, NY

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

Projects

Engineering Intramural: Energy Assessment of Natural Sciences Complex

- Created a program to analyze excel sheets comprising of the energy usage and costs associated with an academic facility. Utilized: R, RStudio, Excel

Qualitative Bankruptcy

- Applied a Decision Tree Algorithm to a dataset that comprised of 200+ financial institutions to accurately predict whether one of them goes bankrupt or not. Utilized: Python, CSV

CropShop

- Collaborated with a team to develop an Android application to act as a new platform for farmers/sellers to connect with local communities. Utilized: Android Studio, Firebase, XML, Java, Agile