

Benjamin Cowan

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Education

Syracuse University - New York:

07/2020 - 06/2021

Masters in Applied Data Science

University of Tennessee - Knoxville:

08/2014 to 05/2018

Bachelor of Science in Biological Sciences (Biochemistry, Cellular and Molecular Biology)

Career Goal

Pursue data science-related opportunities to hone my analytical skills - derive value, or actionable insight, from large amounts of data using statistical tools, programming skills and machine learning models.

Relevant Coursework

- Prepared, manipulated, visualized, and analyzed data using R and Python programming languages.
- Developed and explained the output of different statistical inference techniques (e.g., Confidence Intervals, Bayesian and Hypothesis Testing).
- Trained Machine Learning Models (e.g., Naive Bayes, Support Vector Machines, Decision Trees, Random Forest, and K-Nearest Neighbor) and analyzed their ability to classify unseen data.
- Communicated analytical results in a clear and concise manner, for technical and non-technical audiences, using reports and presentations.
- Developed new strategies, based on Exploratory Data Analyses, to tackle data science-related problems. Analyzed linear and logistic regression outputs to make logical business decisions.
- Applied database management concepts, data modeling and advanced querying techniques using SQL.

Experience

Volunteer, Habitat for Humanity – Warner Robins, GA

05/2014 to 07/2018

Joined with 10-15 volunteers and build crews to construct four houses and repair two houses, providing affordable housing to lower income families. Completed indoor and outdoor painting, framing and boarding, and wheelchair-ramp construction.

Group Project Leader and Participant - University of Tennessee – Knoxville, TN 08/2016 to 05/2018

Developed critical thinking, problem-solving, and communication skills during situations that presented obstacles that only teamwork could overcome.

Microbial Physiology (MICR 410, Spring 2018)

- Led a team that created a theoretical microbe which met required physiological and environmental demands. Learned to choose optimal solutions to problems, delegate roles and responsibilities, and ensure each group member was progressing in the right direction and completing assigned tasks by deadlines.

Advanced Microbiology (MICR 321, Fall 2017)

- Led weekly team meetings where members read, summarized, and presented microbial research papers on topics ranging from genome sequencing to microbiome research. Learned to interpret, analyze, and communicate technical findings.

Public Writing (ENGL 255, Fall 2016)

- Created a fictional business enterprise. Analyzed and synthesized multiple criteria, such as organization mission statement, customer demographics, and geographical location served. Developed a website and other advertising materials.

Tenor Captain / Member of High School Marching and Concert Bands

08/2011 to 05/2013

- Played in the front ensemble for Caesar Rodney High School Marching Band, Dover, Delaware. Responsible for organizing, tuning, moving, and playing multiple instruments.
- Tenor Captain, Veterans High School Marching and Concert Band, Kathleen, Georgia. Responsible for organizing and training tenor section of the band.