Bruno Arnabar

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Resourceful and solution-driven computer science student with an extensive range of programming experience. Searching for challenging and thought-provoking work alongside a team of individuals who can assist my personal growth.

Education

University Of Pittsburgh, P.A.   *August 2022*

Bachelor of Science in Computer Science & Bachelor of Arts in Film Production
- Honors: Summa Cum Laude (GPA: 3.8/4.0)
- Relevant Coursework: Data Structures and Algorithms 1 and 2, Machine Learning, Computer Vision, Software Quality Assurance, Data Science, Operating Systems

Academic Projects

University Of Pittsburgh, P.A.   *August 2021-May 2022*

Senior Capstone
- Developed an interactive web application using Javascript, Python, Neo4j, and open access API's that allows users to create a network of films based on various attributes
- Worked closely with faculty in the School Of Computing and Information to create a design that is useful and innovative for the English and Film Department
- Engaged consistently alongside four students to produce clear requirements, reasonably delegated tasks, scalable and reliable code, cohesive and user-friendly interface

Machine Learning
- Constructed Bayesian and Non-Bayesian models in a term project sponsored by PPG to identify the fraction of inputs necessary to maximize the quality of their surface coating
- Executed image homography in which two slightly varying input images were stitched together by calculating where points from the first image equated in the second
- Built an interpretable model displaying features from MRI scans so professionals researching Cardiac Disease can comprehend the decisions behind the predictions

Data Science
- Accessed historical bike rental data for 2021 from HealthyRidePGH to summarize statistics, create dynamic graphs with conditional filtering, and cluster similar stations together

Filmmaking
- Directed short films. Conducted film-making under the Oberbeck Grant. Studied abroad in London with a masterclass by Laura Mulvey. Short films / animations available on my website.

Technical Skills

- Object-Oriented Programming, Java, R, Matlab, Linux, x86, Python (and Jupyter Notebook), C, Neo4j, SQL, Git, RunwayML, Adobe Applications, and Blender. Bilingual: Spanish