

# GABRIELLA ARDILES

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## EDUCATION

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### Carnegie Mellon University

Bachelor of Science, Information Systems

Expected Graduation: May 2023

**Related Courses:** Fundamentals of Programming and Computer Science, Principles of Computing, Principles of Imperative Computing, Entrepreneurial Mindset, Database Design and Development, Application Design and Development, Practical Data Science

## TECHNICAL SKILLS

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**Programming Language & Databases:** Python, Java, R, SQL, Ruby, C/C++, MySQL, MongoDB

**Packages/Frameworks:** NumPy-Pandas, Scikit-learn, TensorFlow, Spark, Hadoop, MapReduce, Sketch

**Design:** Prototyping, Storyboards, Wireframes

**Interest:** Design, Sewing, Volleyball

## WORK EXPERIENCE

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### Heinz College Privacy Economics Experiments Lab

Carnegie Mellon, PA

Research Apprentice

Jun. 2021 – August. 2021

- Wrote **Python** scripts and utilized **machine learning** to extract and process the experimental data collected in **DataGrip** and implemented improvements to the email classifier component of the study software which increased accuracy by 10%
- Created and deployed online surveys related to the study using **Qualtrics** and monitored 15 study participants compliance with experimental conditions through weekly reports
- Communicated with the project manager weekly to gain critical feedback and implement changes to my code and increased efficiency by having weekly meetings with managers and 15 other team members.

### CyLab Security and Privacy Institute

Carnegie Mellon, PA

Research Assistant

Aug. 2020 – Dec. 2020

- Researched and experimented with **OpenSimulator**, an open-source server platform to host and experiment with different style virtual classrooms and presented my results weekly to a team of 10 researchers
- Wrote **C#** scripts to implement audio and video streaming and a low-polygon classroom and in **Unity**

### Traffic21 Institute

Carnegie Mellon, PA

Research Assistant

Aug. 2020 – Dec. 2020

- Compiled database of **Google Scholar** publication searches for University Traffic Center funded researchers
- Developed research synopsis of a variety of completed UTC projects including those on machine learning and cyber security
- Presented outcomes to senior management in weekly standup meetings

## PROJECTS

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### Social Media Sentiment Analysis

Feb. 2022 – May. 2022

- Utilized the Twitter API and developed a python script to extract tweets related to the Metaverse
- Performed **NLP** based Tokenization and Vectorization and processed data on machine understandable language
- Applied a **LSTM** model for data analysis to determine sentiment polarity of the data set and performed data visualizations using **Geopy** and **Altair**

### Audio Streaming Database Reconstruction

Aug. 2020 – Dec. 2020

- Reverse engineered business value propositions and functionality of an audio streaming application through constructing complex user stories and a conceptual model for the system
- Constructed and implemented a database schema using **PostgreSQL** and **Python**

### Ice-Breaker iOS App

May. 2020 – Aug. 2020

- Worked with **Swift** and **objective-c** to build an icebreaker iOS application called Zonked
- Created iOS mockups for implementation, built wireframes and designed graphics in **Sketch**

## LEADERSHIP

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### Vice President | First Together Organization

Jun. 2020 – Present

- Advocate for the needs of the first-generation students at Carnegie Mellon through meetings with campus leaders
- Established a mentorship network with various campus professionals to aid incoming students in their transition to college
- Marketed 25+ events and update website and calendar weekly to generate community interest; increased membership by 50%.
- Ensured all expenses are within the budget, kept track of all club finances, and conducted all club reimbursements

### Instructor | Python Student Program

Jul. 2020. – Aug. 2020

- Conducted a five-week donation-based program using Zoom.
- Created detailed lesson plans as well as educational materials for tri-weekly meetings