

Joseph Monaco

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EDUCATION **University of Pittsburgh**, Pittsburgh, PA
Bachelor of Science, Computer Science, Expected May 2020 GPA: 3.96

COURSES Intermediate Programming with Java, Discrete Mathematics, Data Structures, Computer Organization & Assembly, Algorithms, Systems Software, Parallel Programming, Operating Systems, Computer Vision, Calculus 1 & 2, Linear Algebra, Applied Statistics.

TECHNICAL SKILLS **Languages:** Java, C, Python
Technologies: Git, Scikit-learn, Conda

EXPERIENCE **Undergraduate Teaching Assistant, Data Structures** Department of Computer Science, University of Pittsburgh
Aug 2017 - Present Pittsburgh, PA

- Led recitations ranging from 15 to 30 students.
- Created worksheets for midterm and final review.
- Hosted office hours to help with 5 assignments during the semester.

Undergraduate Research Assistant Department of Computational & Systems Biology, University of Pittsburgh
May 2018 - July 2018 Pittsburgh, PA

- Worked with Dr. Chakra Chennubhotla on ciliary motion analysis.
- Developed a machine learning pipeline using python and scikit-learn to analyze 70+ videos of cilia.
- Automated the creation of 2 data visualizations for all 70+ videos.
- Created talks to discuss findings to technical and non-technical audiences ranging from 15 to 30 people.
- Technologies used include: Python, OpenCV, Scikit-learn, Jupyter Notebooks, and Conda.

ACTIVITIES Autism Speaks Aug 2017 - Present
Panther 2 Panther Computer Science Tutor Aug 2017 - Present
Geek Frisbee June 2018 - Present
Phi Eta Sigma Honor Society January 2017 - Present
Treasurer Resident Student Association Aug 2016 - April 2017

INTERESTS Drums/Music, Chess, Teaching, Frisbee