

James Macak

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Education

HARTWICK COLLEGE

Oneonta, NY

B.S. in Computer Science. Major GPA 3.9/4, Cum GPA 3.8/4

Anticipated Graduation -- June 2021

Relevant Coursework

Intro to Deep Learning (MIT 6.S191), Machine Learning (Coursera), Computer Ethics, Database Concepts, Advanced Programming Techniques, Bioinformatics, Linear Algebra, Differential Equations

Scholarships and Awards

John Christopher Hartwick Faculty Scholar, The Departmental Award for Excellence in Computer Science for Spring 2019 & Spring 2020, Dean's List for Fall of 2017 – Current (8 times), Hartwick College Oyaron Scholarship, Hartwick Assistance Grant 2017, NY Tuition Assistance Program, Federal Pell Grant

Technical Skills and Interests

Experience in: Python, R, MATLAB, Java, MySQL, Pandas

Interested in: Deep Learning, Mathematics, Bouldering, Hiking, German Cars

Personal Projects

NLP With Disaster Tweets

February 2021 -- Current

Current thesis project involving NLP to determine if a Tweet refers to a natural disaster, based on an ongoing Kaggle competition. Plans include text processing, feature extraction, and modelling, all written in Python Jupyter notebooks. This project will conclude with a thesis defence presentation by June 2021.

Lottery Prediction

June 2019 -- Current

A program analysing State Lottery data to predict future draws. Analysis and projection tools utilize a custom algorithm, based on long and short-term cycles of observed patterns.

Experience

HARTWICK COLLEGE

Oneonta, NY

Python Tutor

October 2020 -- Current

- Tutoring undergraduate students in basic Python and SQL topics

Network Department Assistant

July 2019 -- October 2020

- Worked with Network & Systems Admins to upgrade and manage the Hartwick Campus Network.
- Oversaw inventory of HP Aruba equipment valued at ~\$750k.
- Configured and deployed switches, briefed supervisors, and established work proficiency.

Technology Resource Center – Student Technology Assistant

June 2018 -- July 2019

- Hardware & software troubleshooting, network & account support, help desk duties.

Volunteering

MAIN STREET BAPTIST CHURCH

Oneonta, NY

Sunday Morning Service Livestream

January 2021 -- Current

One of a small group of technical volunteers to livestream church services.

CLIFF Youth Group Leader

November 2020 -- Current

Leading Junior High students on a weekly basis, running group activities.

Leadership – President of:

Campus Ambassadors: Organize events, small group leader, future planning, and the like. (2020-21)

Computer Science Club: Put into motion and received extra funding to build a server for ML. (2019-20)