Ava Hajratwala

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EDUCATION

Barnard College, Columbia University | New York, NY | *BA Computer Science* Expected May 2025, Dean's List (Fall 2021, Spring 2022, Fall 2022) GPA: 3.800

Saline High School | Saline, MI | September 2017 – May 2021 | Class Rank: 3/416

- National Merit Scholar
- Recipient of the Compass Award for mastery in communication, collaboration, creativity, and critical thinking skills.

PROJECTS

Reinforcement Learning Stick-Shift Simulation | Summer 2023

- Built a 3D manual transmission driving simulation in Unity game engine (C#).
- Developed, tuned, and trained a Q-learning agent to learn how to operate a manual transmission from scratch.

Dynamic Web Server and Client | *COMS 3157 (Advanced Programming)* | Fall 2022

- Implemented client and server sides of a dynamic web server that searches a database and displays the search results (rendered HTML) from a client-submitted query. Written in C using the Socket API.

Neural Network | *COMS 4701 (Artificial Intelligence)* | Spring 2023

- Implemented a fully connected neural network from scratch in Python.
- Trained and tuned the network to identify handwritten digits from the famous MNIST dataset.

Personal Website | April-May 2023

- A personal website and project showcase for potential employers, written using the Fomantic-UI CSS framework and HTML5.

Source code and complete project list is available through my website, https://avahajr.github.io

WORK EXPERIENCE

Columbia Disability Services | New York, NY | *Peer notetaker* Spring 2023 Semester

- Selected to take detailed lecture notes on all lectures for my classes in Computational Linear Algebra and Artificial intelligence, logged and submitted weekly to students who request them.

Meijer Great Lakes LLC | Ann Arbor, MI | *Cashier*

U.S. House Campaign, Gretchen Driskell | Saline, MI | *Campaign Intern* October – November 2020

- Organized, trained, and led groups of volunteers making calls on behalf of Candidate Gretchen Driskell

U.S. House Campaign, Solomon Rajput | Ann Arbor, MI | *Campaign Fellow* March 2020 – Jan 2021

- Made over 700 phone calls and canvassed over 150 houses on behalf of Candidate Solomon Rajput

TECHNICAL SKILLS

Programming Languages: Python (NumPy, Pandas, Matplotlib), Java, C/C++, C#, HTML5, CSS
Other: Git version control & GitHub, Microsoft Excel, LaTeX\KaTeX typesetting