CAROLINE ELIZABETH HAOUD

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EDUCATION

Columbia College, Columbia University (CU)
Computer Science and Neuroscience, Bachelor of Arts | *GPA: 3.3*   Expected: May 2025
- Awards: Ron Brown Scholar, Gates Millennium Scholar, Quest Bridge Scholar, Dean List Scholar, MLT Software Engineering Career Prep Fellow, George Harvey Scholar, Jackie Robinson Scholarship Finalist, 2023 2nd Place for Hackathon @ CU DevFest
- Orgs: Alpha Kappa Psi Business Fraternity, Reboot Representation Scholars, America Needs You Fellowship, ColorStack, Rewriting the Code, Women in Machine Learning

Cornell Tech, Cornell University, online certification in graduate-level Machine Learning course   Aug 2023

PROFESSIONAL EXPERIENCE

Break Through Tech AI Intern, Accenture | *Project Management, Teamwork, Data-Driven Decision Making*   Aug 2023-Present
- Collaborating with 5 interns to help Accenture's business client with product strategy, marketing and location recommendation for opening a series of coffee shops throughout New York City
- Employing a regression model to identify the optimal location for opening the first coffee shop, drawing upon the NYC Open Data resource to identify key factors such as population density, income levels, foot traffic, proximity to transportation hubs etc. and leveraging this model to measure against competitor coffee shops' popularity and quality based off of Yelp metrics.
- Employing sentiment analysis, a specific application within natural language processing, on Yelp reviews using the Yelp API for specialty items selection and business and marketing priorities by identifying key words in reviews to learn what New York customers most commonly like and dislike when visiting coffee shops.

New Technologist Intern, Microsoft x Cyborg Mobile | *Agile Software Development, Product Management, Innovation*   Jun 2023-Aug 2023
- Worked with 5 interns to investigate a problem of interest to Microsoft, progressing through the entirety of the software development life cycle from selecting a problem space, conducting user research, creating a product management specification and building a prototype full-stack web in React and using APIs such as OpenAI's ChatGPT and DALLE-2
- Selected as 1 of 50 interns from a competitive 2.8k+ applicant pool (1.7% acceptance) to join Microsoft in Redmond, Seattle
- Received a SWE intern referral for Summer 2024 upon successful completion of the program.

Engineering Manager and Software Engineer, **Columbia Daily Spectator (CDS)** | *Software Development, Collaboration*   Sep 2021-Present
- Selected from a competitive pool to join CDS Engineering. CDS nets $300k+ revenue/year and 1+ million unique page views/year
- Collaborated with 5 developers to create the 2023 Black History month special edition (https://bhm2023.columbiaspectator.com/)
- Deployed a full-stack web application using MongoDB, Express, React, and Node that imports and deletes CDS journalistic sources
- Created a front-end carousel feature for top news stories, bookmark functionality using async storage and integrated notifications for CDS's iOS and Android home pages using React Native, Expo API and OneSignal

Undergraduate Research Assistant, **Zuckerman Institute** | *Analytical, Hypothesis-Driven, Python, Machine Learning*   Jan 2017-Jan 2023
- Developed a Python tool for utilizing machine learning to study different learning rates in fly brain regions
- Created a Python tool to map neural networks and generate 3D renderings of neural connections using a data set of 20k neurons
- Contributed to PsychRNN, a python package that makes recurrent neural networks more accessible for non-ML research scientists
- Conveyed experiment findings through data visualizations using Python libraries pandas, NumPy, Matplotlib and seaborn and presented findings at the National Undergraduate Research Conference at Harvard University

LEADERSHIP EXPERIENCE

AI / ML Fellow, Break Through Tech AI, Cornell Tech | *Machine Learning, Training Models, Python, Data Science*   May 2023-Present
- Selected from 1500+ applicants to participate in the Break Through Tech AI Program at Cornell Tech, an 18-month program to learn machine learning foundations, including feature selection and engineering, data preparation, sampling techniques, data analysis using the pandas, NumPy, matplotlib and seaborn python libraries, K-Nearest Neighbors Classification, Decision Trees, sentiment analysis

Career Prep Fellow, Management Leadership for Tomorrow | *DE&I, Technical Interview Prep, Programming, Teamwork*   Feb 2023-Present
- Selected for a 20-month long professional development program for high-achieving diverse talent looking to pursue a career in the software engineering and technology industry with a strong emphasis on building a strong technical foundation, learning about engineering career paths in technology and networking with 150+ partner companies

President, Resident Council, International House | *Leadership, Collaboration, Project Management, Community Engagement*   Sept 2022-Jun 2023
- Manage 17 Residents' Council members and their projects, including the completion and delivery of a sexual harassment prevention workshop for new member orientation, supporting the Humans of International House Centennial book and the creation of the Resident Council's Guide to Living at International House which details how to navigate life at International House, New York City, and the United States more broadly for a largely international resident body

Possibilities Summit Participant, Goldman Sachs (GS) | *DE&I, Professional Development, Networking*   Jan 2023-Mar 2023
- Selected from a competitive pool of 11k applicants to attend a virtual diversity program to hone soft and technical skills through the level-up series,learn about different roles and divisions at GS and network with GS professionals
- Vetted for an invite-only opportunity to apply for the Early Possibilities Track, extended to exceptional sophomores in the Summit