

# CAROLINE ELIZABETH HAUD

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## EDUCATION

### Columbia College, Columbia University (CU)

Computer Science and Neuroscience, Bachelor of Arts

Expected: May 2025

- **Awards:** Ron Brown Scholar, Gates Millennium Scholar, Quest Bridge Scholar, Dean List Scholar, Management Leadership for Tomorrow Software Engineering Career Prep Fellow, George Harvey Scholar, Jackie Robinson Scholarship Finalist, 2023 2<sup>nd</sup> 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, Columbia Daily Spectator, Columbia Financial Investment Group

**Cornell Tech, Cornell University**, Online certification in graduate-level Machine Learning course

Aug 2023

## PROFESSIONAL EXPERIENCE

**Break Through Tech AI Fellow, Accenture** | *Project Management, Teamwork, Data-Driven Decision Making*

Aug 2023-Present

- Leading and 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 (6 hr/week commitment)
- Developing 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
- Building a sentiment analysis NLP model on Yelp reviews using the Yelp API business and marketing priorities and specialty menu item selection 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

- Investigated a problem of interest to Microsoft with 4 interns, 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 DALL-E-2
- Selected as 1 of 50 interns from a competitive 2.8k+ applicant pool (1.7% acceptance) to join Microsoft in Redmond, Seattle

**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
- Led and managed 4 developers to create the 2023 Homecoming [special edition](#) using React
- Collaborated with 5 developers to create the 2023 Black History month [special edition](#) using React
- 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

**Instructor, Girls Who Code, Columbia University** | *Computer Science Education, Diversity, Equity and Inclusion, Pedagogy*

Sept 2022-May 2023

- Taught the web development course in HTML, CSS and JavaScript to 20 high school girls in the Spring 2023 semester by teaching best practices, ensuring conceptual understanding and helping students design and create their own websites
- Drove conceptual comprehension of complex topics in Python, Data Science and Machine Learning and helped 20 high school girls debug their code using the Socratic method in Fall 2022 semester.

**Undergraduate Research Assistant, Zuckerman Institute** | *Analytical, Hypothesis-Driven, Python, Machine Learning*

Jan 2017-Jan 2023

- Developed a Python tool by utilizing machine learning to study different learning rates in fly brain regions, mapping neural networks and generating 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

## SKILLS

- **Languages:** Python, React.js, React Native, Java, JavaScript, C, HTML, CSS, SQL
- **Tools:** Git, Github, Visual Studio Code, Microsoft Office Suite, Node, Figma
- **Environments:** Docker, Linux

## LEADERSHIP EXPERIENCE

- **President and Founder, Columbia ColorStack Chapter**, Spring 2023-Present | Founded and currently leading the ColorStack at Columbia University, an organization dedicated to supporting the retention and success of Black, Latinx, and Native American students in computer science careers through mentorship programs, workshops, and industry partnerships
- **AI / ML Fellow, Break Through Tech AI, Cornell Tech**, Spring 2023-Present | Selected from 1500+ applicants to participate in an 18-month program to become proficient in both theory and application of machine learning, data science and artificial intelligence
- **President, Resident Council, International House**, Fall 2022-Spring 2023 | Managed 17 Residents' Council members and their projects, including advocating for the resident body by facilitating conversation with administration through town halls