

# Mila Lin Tabach

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## EDUCATION

**Barnard College, Columbia University** | New York, NY

B.A. in Computer Science and Film and Media Studies | GPA: 3.97/ 4.00

Relevant Coursework: Databases, Advanced Programming, Artificial Intelligence, User Interface Design, AI and Storytelling, Creative Embedded Systems, Data Structures and Algorithms

## COMPUTER SCIENCE & DATA ANALYSIS

**Cohen & Steers** | Software Developer | New York, NY

**Summer 2025**

- Designed and deployed an automated reporting and email notification system integrated with SQL Server databases on Azure Cloud, ensuring data accuracy and improving workflow efficiency across teams.
- Collaborated with Project Management and Investment teams to optimize project delivery pipelines, aligning software solutions with business objectives
- Led a cross-departmental data-driven capstone project, researching and prototyping a chatbot for sales analytics and presenting scalable recommendations to senior stakeholders

**Design Tools Lab** | Research Assistant | New York, NY

**May 2025 - Present**

- Prototyped a digital journaling analysis tool for collecting, organizing, and querying large sets of creative artifacts, enabling computational research in personal reflection and expression
- Applied human-computer interaction principles to improve usability and data visualization for research applications

**Barnard College – Computer Science Help Room** | Head Tutor | New York, NY

**Aug 2024 - Present**

- Delivered individualized and group tutoring in data structures, algorithms, AI, databases, and UI design, reinforcing technical and analytical foundations
- Analyzed student logs to generate insights that improved tutoring strategies and optimized resource allocation

**Ernst & Young** | Summer Intern in Technology Consulting | Sao Paulo, SP

**Summer 2023**

- Pre-processed and cleaned large-scale transportation datasets using Python and SQL, running simulations to benchmark productivity against client goals
- Built Power BI dashboards to transform data into actionable insights, directly supporting stakeholder decision-making in infrastructure and logistics analytics
- Partnered with cross-functional teams to establish AI ethics guidelines, ensuring alignment of technology initiatives with business integrity and compliance

## PROJECTS

**Hand Gesture Classifier for Sign Language** | COMS 4701 Artificial Intelligence

- Built and trained a Convolutional Neural Network (CNN) in TensorFlow/Keras to classify sign language gestures, achieving 90%+ test accuracy
- Applied data preprocessing, feature extraction, and model evaluation to ensure performance and reliability on large labeled datasets

**How to use a Camera?** | COMS 4170 User Interface design

- Developed a Flask-based interactive web application to teach photography fundamentals, integrating exposure simulations and quizzes to reinforce user learning

**Lagging Detector** | Independent Project (In Progress)

- Designing a web application with integrated ML models to detect and classify laughter from audio and video recordings

## LEADERSHIP, COMMUNITY, TEACHING

**Brazilian Society @ Columbia University** | President | New York, NY

**Jun 2024 - May 2025**

- Organized academic and professional events fostering Brazilian cultural exchange and community engagement.
- Mentored underclassmen, providing guidance on academics, campus life, and cross-cultural adjustment

## TECHNICAL SKILLS & LANGUAGES

Languages: Portuguese, Spanish, Chinese

Technical: Python, Java, C, C++, SQL, TensorFlow, Keras, Flask, Azure Cloud, Power BI, R, HTML, Adobe Suite, 3D Modeling, MS Office