

Miles Ehrlich

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EDUCATION

FORDHAM UNIVERSITY

New York, NY

BS, Math and Computer Science (CS Concentration) - GPA: 3.9

2024 – 2027 (Expected)

3-2 Dual Degree Engineering Program with Columbia University

- Planning to earn a second bachelor's in computer engineering from Columbia University (Expected 2029)
- Relevant Coursework: Numerical Analysis, Advanced Physics I & II; Intro to Electrical Engineering (Spring 2027)

WORK EXPERIENCE

NY CREATES NANOTECH COMPLEX

Albany, NY

INTERN, Vulnerability Management & Security Operations

Jun 2026 – Aug 2026

- Supporting a **semiconductor fabrication and nanotechnology research complex** through vulnerability management and security automation, gaining organizational exposure to a **chip manufacturing** R&D environment
- Supporting vulnerability management operations, including automating ticketing workflows and building analytics scripts for reporting and tracking
- Contributing to indicator-of-compromise (IOC) hunting and other cybersecurity initiatives across the organization

OSTROFF ASSOCIATES INC.

Albany, NY

LEGISLATIVE AIDE

Jan 2024 – Aug 2025

INTERN

Jul 2023 – Jan 2024

- Identified and secured government grant opportunities for clients, contributing to increased project funding
- Collaborated on research and analysis of legislative and policy developments to form strategic counsel for clients

RESEARCH EXPERIENCE

FORDHAM UNIVERSITY

Dec 2025 – Oct 2026

Undergraduate Research Lead

- Led a three-way study (unfiltered vs. automated vs. human-filtered augmentation) on MNIST, CIFAR-10, and STL-10; human filtering improved clean accuracy by up to 7 percentage points
- Built the full pipeline in TensorFlow: DINO ViT foreground localization, a dual-objective classification/reconstruction CNN, and FGSM/PGD adversarial evaluation across 4 pretrained encoders

PROJECTS

PROMPTLYPERFECT – AI PROMPTING EDUCATION PLATFORM | PromptlyPerfect.com (Live)

- Founded an interactive platform that teaches users to write effective AI prompts through tiered XP/streak learning, a live scoring Sandbox, and a community prompt library
- Built full-stack with Node.js/Express, PostgreSQL, and the Anthropic API; implemented JWT + OAuth authentication and a Teams tier with role-based access and admin analytics for business users
- Secured one B2B contract with **20 active users** on the Teams tier

ECOAUDIT – SUSTAINABILITY & IMPACT DASHBOARD

- Won First Place in the Environmental Track at Fordham's first RamHack for a platform that identifies brand sustainability and carbon emissions data in real-time
- Developed a vanilla JS product scanner using the Canvas API and ImageBitmaps for live perimeter-trace animation while analyzing frames with Claude Vision, integrated with Leaflet.js and Clearbit APIs

MINT – INTERACTIVE MEDIA BROWSER EXTENSION

- Developed a React-based browser extension at Columbia's DevFest hackathon that turns streaming media into a searchable, interactive shopping experience, allowing users to click and drag over objects in live video to identify products
- Integrated Google Gemini and Dedalus Labs APIs via a Python backend for image recognition and product matching

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript, HTML, CSS, SQL

Frameworks & Tools: React, Node.js, Express.js, PostgreSQL, REST APIs, Git/GitHub, Tenable/PyTenable, Overleaf

Quantitative Methods: Numerical methods (Runge-Kutta, SVD, Fourier analysis), MATLAB/Python for scientific computing

ADDITIONAL EXPERIENCE

COMPUTER SCIENCE CLUB, FORDHAM UNIVERSITY | Vice President | 2026-Present

LEUKEMIA LYMPHOMA SOCIETY (LLS) | Volunteer Fundraiser & Event Coordinator | 2022-2023