

Dina Blachman

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EDUCATION

Barnard College, Columbia University | New York | *BA Computer Science* Expected May 2027

Dean's List (*Fall 2023, Spring 2024, Fall 2024, Spring 2025*) GPA: 3.93

Selected Coursework: Data Structures and Algorithms, Databases, Advanced Programming, CS Theory, Fundamentals of Computer Systems, Machine Learning, LLM Ethics, NLP

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL

Backend & Databases: Django (DRF), REST APIs, PostgreSQL, Auth (JWT, OAuth 2.0/OIDC)

Cloud & DevOps: AWS, Docker, Git, CI/CD (GitHub Actions), Agile/Scrum

Web: React, JavaScript, HTML/CSS (Tailwind)

ML/NLP: PyTorch, Transformers (HuggingFace), LoRA/PEFT, OpenAI API

RESEARCH EXPERIENCE

Barnard Summer Research Institute | New York | *Undergraduate Researcher* May 2025 - Present

Joint project with Columbia Law School and CJI to develop an AI pipeline that flags prosecutorial misconduct in court rulings, cutting journalist review time from months to days.

- Co-led end-to-end NLP model design and evaluation, iteratively prototyping and refining approaches to meet legal standards and newsroom needs using Chain-of-Thought prompting
- Fine-tuned an open-source LLM (LoRA/PEFT, 4-bit) for classification and evidence-extraction tasks across 7 misconduct types and 5 court-holding outcomes
- Improved evidence-extraction performance to 61% from GPT's 50% baseline and achieved ~79% accuracy, 0.78 F1, and 0.90 recall on key categories in classification tasks
- Currently piloting with investigative journalists in a newsroom study; co-authoring a paper on adoption and workflow impact

ENGINEERING EXPERIENCE

Carson Living | New York | *API Intern* May 2024 - August 2024

- Shipped a priority-flag REST API endpoint from design through production for a 24/7 property management platform, enabling tenants to mark urgent maintenance issues and staff to filter them; now live in hundreds of multifamily buildings across legacy and modern workflows.
- Validated JSON contracts via automated PR tests, wrote integration tests, and eliminated release-blocking UI/API mismatches in collaboration with frontend engineers
- Served as sole on-call intern for live client-reported bugs; wrote performance-tuned, time-sensitive SQL queries across multi-table schemas to patch database issues and generate ad-hoc reports under tight SLAs

PROJECTS

Giffuse — React/TypeScript, Node/Express (fluent-ffmpeg), FastAPI (MoviePy)

In-progress browser app to stitch gifs with audio into MP4s; integrated Tumblr API for search/load, built drag-and-drop timeline editor, and building media processing via fluent-ffmpeg (Node) + MoviePy (Python)

Notion Toggle — JavaScript, Chrome Extensions API

Lightweight Chrome extension to add a keyboard shortcut for toggling Notion's calendar sidebar; implemented DOM querying + event listeners, packaged and deployed via the Extensions API for seamless browser use.

LEADERSHIP & CAMPUS INVOLVEMENT

Application Development Initiative | Columbia University | *Community Lead* October 2023 - Present

- Lead event strategy for Columbia's largest technology club, supporting 50+ members, 6,000+ followers
- Spearhead 6+ flagship events per semester—career fairs, professor lunches, alumni mixers—bringing together 150+ students, faculty, and industry professionals to strengthen the CS community

Cursor | Columbia University | *Campus Lead* Incoming (September 2025)

- Joining a small founding cohort that will work with the Cursor engineering team to beta-test early features, run AI-coding workshops for students, and deliver usage metrics that inform the product roadmap