

DYLAN TRAN

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EDUCATION

Columbia University, New York, NY

Expected Graduation: May 2026

B.A. in Computer Science, Minor in Linguistics, GPA: 3.85/4.0

Relevant Coursework: Databases, Comp. Vision, Comp. Systems, Data Structures, Linear Algebra, Calc-based Stats, Calc III

Honors/Awards: John Jay Scholar, Cyber NYC REU Fellow, Pritzker Pucker Fund Recipient, FLAS Fellow, WEP Grantee

The American University in Cairo, Cairo, Egypt

Jan 2025 – May 2025

Spring Semester Exchange

Relevant Coursework: Artificial Intelligence, Operating Systems

Other Education: CodePath, Legal Outreach, Brooklyn Friends School

SKILLS

Technical: Intermediate: Python, HTML/CSS, C, Java, Beginner: C++, Javascript, SQL, iOS, Assembly

Frameworks/Libraries: Intermediate: Wireshark, scikit-learn, pandas, Beginner: TensorFlow, OpenCV, spaCy

Technologies/Tools: Intermediate: Git/Github, Selenium, MongoDB, Beginner: Neo4j, Palantir Foundry, Unity, CAD

Languages: Advanced: Vietnamese, Arabic (MSA, Egyptian), Latin, Intermediate: Cantonese, Beginner: French

TECHNICAL & RESEARCH EXPERIENCE

Cornell Tech, New York, NY – *Algorithmic Systems Research Intern*

Jun 2025 – Present

- Selected for Google- and NYCEDC-backed research fellowship at Cyber NYC Initiative, mentored by Dr. Nikhil Garg
- Investigated how algorithmic customization influence user trust in news exposure across decentralized social media platforms
- Developed modular feed-ranking algorithms using Bluesky's open APIs to support customizable social media content delivery

echo3D, New York, NY (*Remote*) – *Software Engineer Intern*

Jun 2025 – Present

- Built and maintained web and mobile demo applications using echo3D's cloud-based 3D asset management platform and SDK
- Developed real-time AR/VR content pipelines and integrated Unity/WebGL/Three.js demos for developer-facing use cases

Annarabic, Casablanca, Morocco (*Remote*) – *Software Engineer Intern, Business Development Intern*

Sep 2024 – Feb 2025

- Designed and optimized a scalable Python web scraper API with Selenium and MongoDB, improving per-video latency and data throughput by ~4.5x across 10,000+ hours of YouTube metadata for low-resource Swahili and Arabic NLP applications
- Planned for future work by analyzing system bottlenecks, scoping optimizations, and creating a product specification document
- Showcased "Transcribing WhatsApp Arabic Voice Messages" product demo at Columbia Data Science's 2024 Research Fair
- Facilitated partnerships with African governments to expand business operations into 3 countries, building new LLMs for minority African languages and leveraging proprietary technology to support humanitarian relief efforts (pending USAID)

CUCyber, New York, NY – *Cybersecurity Competitions Chair*

Oct 2022 – May 2024

- Led 50+ members in 9 national CTF competitions, coordinating social meetings for collaboration and attaining top placements
- Delivered technical workshops on malware creation with msfvenom and bash, and on applications of cryptographic algorithms
- Hardened Windows VM system, performed traffic analysis on Wireshark, and combatted malware attacks from APTs in CCDC

The City University in New York, New York, NY – *Neurolinguistics Research Intern*

May 2023 – Aug 2023

- Investigated the neurocognitive impacts of social isolation on lexical retrieval abilities among elderly adults
- Refined experimental protocols by developing measures to study social networks, synthesizing 100+ scholarly articles, and leading subject recruitment with Drs. Loraine Obler and Amy Vogel-Eyny
- Proposed scoping review paper on assessments and measures of social isolation in existing scientific literature

PROJECT EXPERIENCE

Palantir Technologies, Denver, CO (*Remote*) – *Winter Defense Tech Fellow*

Dec 2024 – Jan 2025

- Modeled proof-of-concept Foundry dashboard to streamline geospatial data integration for satellite tasking workflows, identifying and addressing data gaps to enhance military intelligence

SeekMarine, New York, NY – *Developer*

Nov 2024 – Present

- Designed iOS marine species identification app, integrating Core ML to process underwater images for ecological studies
- Trained and fine-tuned model on marine life dataset using OpenCV and TensorFlow, optimizing model for mobile deployment

Personal Portfolio Website, New York, NY – *Web Developer*

Oct 2024 – Present

- Developed responsive portfolio website from scratch using HTML, CSS, and Javascript
- Integrated dynamic navigation, adaptive layouts, and interactive Javascript UI/UX components to enhance accessibility

OTHER AFFILIATIONS

Columbia Emerging Markets Society, New York, NY – *MENA Markets Analyst*

Feb 2024 – Present

Woodenfish Foundation, New York, NY – *Buddhist Sangha Education Study Tour Coordinator*

Mar 2024 – May 2024

The New York Academy of Sciences, New York, NY – *Junior Academy Team Leader*

Aug 2020 – Jun 2022