

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, Adv. Programming, Comp. Systems, Data Structures, Linear Algebra, Calc-based Stats, Calc III

Honors/Awards: John Jay Scholar, FLAS Fellow (Arabic), Dean's List, Work Exemption Program Grantee

The American University in Cairo, Cairo, Egypt

Jan 2025 – May 2025

Spring Semester Exchange

Relevant Coursework: Artificial Intelligence, Operating Systems

Other Education: CodePath, Arabic Language Institute in Fez, Legal Outreach, Brooklyn Friends School

SKILLS

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

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

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

Languages: Advanced: Vietnamese, Arabic, Latin, Intermediate: Cantonese, Beginner: French

RELEVANT EXPERIENCE

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

Sep 2024 – Present

- Developed scalable Python web scraper API with Selenium and MongoDB, automating 1M+ hours of YouTube metadata extraction to expand low-resource Swahili and Arabic language corpora and enhance model robustness for NLP applications
- Fine-tuned speech recognition LLM through data augmentation techniques on dataset using PyTorch, pandas, and scikit-learn
- Showcased “Transcribing WhatsApp Arabic Voice Messages” product demo at Columbia Data Science 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 disaster 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 Assistant*

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

Columbia Radio (WKCR-FM NY 89.9), New York, NY – *Studio Engineer, Technician*

Oct 2022 – May 2023

- Monitored audio engineering systems for nationwide live broadcasts, troubleshooting glitches to ensure quality transmission
- Assisted in developing full-stack library archive, digitizing and organizing metadata for 400+ CDs for database integration

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

Aug 2020 – Jun 2022

- Led international team in ideating, researching, and designing tech-based solutions to UN Sustainable Development Goals
- Designed and modeled lotus silk machine using CAD, creating product specification and analyzing sustainability impacts
- Developed virtual assistant concept to optimize vaccination registration process in Mexico using Big Data and AI systems

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

Columbia Robotics, New York, NY – *PacBot Engineer*

Jan 2024 – May 2024