

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: 3.92/4.0, John Jay Scholar

Relevant Coursework: Fundamentals of Computer Systems, Databases, Advanced Programming, Data Structures, Linear Algebra, Discrete Math, Calc-based Statistics, Calculus III, Third-Year Arabic

The American University in Cairo, Cairo, Egypt

Jan 2025 – Jun 2025

Spring Semester Exchange

Anticipated Coursework: Operating Systems, Computer Vision

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

TECHNICAL SKILLS

Languages: Advanced: Vietnamese, Arabic, Intermediate: Python, Java, HTML/CSS, Beginner: SQL, JS, C, iOS, Assembly

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

Technologies/Tools: Intermediate: Git/Github, Selenium, Excel, Kali Linux, Basecamp, Beginner: MongoDB, MySQL, Lucidchart

RELEVANT EXPERIENCE

Annarabic, Casablanca, Morocco (*Remote*) – *Software Engineering Intern, Artificial Intelligence*

Sep 2024 – Present

- Optimized speech recognition LLM through data augmentation techniques on dataset using PyTorch, pandas, and scikit-learn
- Developed scalable Python web scraper API with Selenium and BeautifulSoup, automating 1M+ hours of YouTube metadata extraction to expand low-resource Swahili and Arabic language corpora and enhance model robustness for NLP applications
- Designed and delivered pitch deck and product demos, targeting client partnerships and pre-seed funding for business growth
- Presented “Transcribing WhatsApp Arabic Voice Messages” product demo at Columbia Data Science’s 2024 Research Fair

Columbia Politics, New York, NY – *Lead Engineer*

Sep 2024 – Present

- Redesigned club webpage with Bootstrap and Figma prototypes to demo improvements and receive team feedback
- Integrated live Instagram feed and embedded sign-up form to streamline membership engagement and database management
- Engaged over 2,000 students in civic political dialogue by planning campus events and spearheading recruitment efforts

UCyber, 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, aggregating 100+ scholarly articles, and assisting in subject recruitment with Drs. Loraine Obler and Amy Vogel-Eyny

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 teams in ideating, researching, and engineering technical solutions to UN Sustainable Development Goals
- Designed and modeled lotus silk machine using CAD, creating product specification and analyzing sustainability impacts

PROJECT EXPERIENCE

SeekMarine, New York, NY – *Co-Developer*

Nov 2024 – Present

- Co-developed iOS application to identify marine species, utilizing Swift and Core ML for image recognition
- Trained and fine-tuned marine life dataset using OpenCV and TensorFlow, optimizing model for mobile deployment

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

Oct 2024 – Present

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

Sentiment Analysis of AI in Africa, New York, NY – *Researcher*

Oct 2024 – Present

- Investigated AI prospects in Africa’s emerging technology sector through sentiment analysis on existing literature
- Developed Python NLP pipeline using spaCy and TextBlob to parse and tokenize scholarly articles and assign sentiment scores

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 Member*

Jan 2024 – May 2024