Matthew Ramos

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EDUCATION & SKILLS

New York University, College of Arts and Science, NY *B.A. in Computer Science*   *May 2026*

Technical Skills: Java, JavaScript, C, ASM, Python, Machine Learning (YOLOv8), Microsoft Office, Carpentry, Engineer Design

Developer Tools: Git, Visual Studio Code, CAD, Jupyter Notebooks

Relevant Coursework: Applied Internet Technology, Basic Algorithms, Data Structures, Computer System Organizations, Discrete Math, Calculus, Spanish 4, Intro to Sociology

Awards: Cybersecurity Awareness Participation Award, AAP Community Impact Award, CSTEP Scholars Recipient

TECHNICAL EXPERIENCE

Full-Stack Developer | OnlyCars– Real-Time Forum Web App | Elmhurst, NY | *Jan 2025 – present*
- Built a full-stack web app for car enthusiasts using **JavaScript**, **HTML**, **CSS**, **Node.js**, **Express**, **MongoDB**, and **Handlebars**.
- Enabled user authentication and secure session management with Passport.js, allowing users to sign up/log in, manage profiles, and create car posts with images via Multer, all displayed in a live-updated feed.
- Designed Mongoose schemas and implemented validation for robust data consistency.
- Wrote **4** unit tests using Mocha and Chai, improving backend reliability and error handling.

Aerobot System Mission Designer | NASA L'SPACE Mission Concept Academy | Remote | *Jan 2025 – May 2025*
- Collaborated with a **10**-person multidisciplinary STEM team to design a theoretical space mission aligned with NASA's goals
- Led power system development ensuring optimal energy efficiency within a **$200M budget**.
- Developed **CAD** models for the Aerobot System using Siemens NX. Utilizing NASA's JMARS GIS tool for selecting optimal landing sites based on volcanic and atmospheric activity data.

Machine Learning Engineer | Yolo(You Only Look Once) v8 AI training | Elmhurst, NY | *Aug 2024 – Present*
- Training a YOLOv8 model using a custom dataset of **100+** images and python, focusing on identifying electrical utilities
- Trained the model to accurately locate and classify wiring in still photos and live video streams, specifically distinguishing between positive and negative wiring for outlets and switches.
- Implemented accuracy metrics including recall and Mean Average Precision (MAP) achieving a detection accuracy of **95%** in evaluating objects.

Automotive Modifier | Acura Tl | Elmhurst, NY | *June 2024 – July 2024*
- Restored and modified an Acura TL by diagnosing and resolving **7** error codes, researching manufacturer schematics, and installing an aftermarket radio with a backup camera
- Diagnosed parts that could lead to further problems and outsourced damaged ones for replacement.
- Followed step by step instructions from manufacturing schematics to allow ease to reupholster damaged interior, swapping wiring harnesses, repainting faded sections of exterior, and servicing components in engine bay.

Backend Developer | Biodiversity County Project | Manhattan, NY | *Nov 2024 – Dec 2024*
- Developed and tested a species list for retrieval, reducing search time by **40%** ensuring optimized data management.
- Enhanced user interaction by implementing keyword-based species searches with real-time results.
- Applied exception handling and file I/O techniques to process and validate CSV datasets with **12** attributes.
- Collaborated on designing efficient data structures to meet program requirements and improve functionality.

WORK EXPERIENCE

Financial Aid Assistant | New York University Financial Aid Office | Lafayette Street, NY | *Aug 2024 – Jan 2025*
- Ensured FERPA compliance and supervised **50,000+** students along with families with NYU Albert financial aid processes.
- Responded to inquiries via phone, email, and ServiceLink; processed documents for verification and scholarships using Campus Logic, academic works, and ImageNow reducing processing time by **20%.**
- Managed **400+** emails, escalated cases as needed, and maintained detailed records in compliance with office procedures.

LEADERSHIP

Associate | New York University Gentlemen Of Quality | Lafayette Street, NY | *Dec 2023 – Present*
- Participated in E-board meeting planning for community events, team building exercises, and consulting on social topics.
- Fostered a supportive environment and connected students with valuable guidance and resources.
- Raised up to **$465** to donate to a local food drive.

INTERESTS

Aerospace, Machine Learning, Cyber Security, Volunteering, Construction, Fitness, Design, Mechanics, Traveling, snowboarding