

Ivan Serdiuk

<https://github.com/IvanSerdiuk> | 929.366.7252 | is2332@nyu.edu | www.linkedin.com/in/ivan-serdiuk/

EDUCATION:

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| ▪ M.S. in Computer Information Systems, NYU – Courant Institute | New York, NY, June 2026 |
| ▪ Bachelor of Business Administration, Baruch College | New York, NY, June 2024 |

PROFESSIONAL EXPERIENCE:

Google Summer of Code (Remote)

Position: Machine Learning Research Intern

June 2025 – August 2025

- Developed a supervised machine learning model in Python (PyTorch, Scikit-learn) to predict potential planetary habitability using datasets from the NASA Exoplanet Archive.
- Engineered features such as orbital period, stellar flux, and atmospheric composition indicators, integrating astrophysical domain knowledge into the model pipeline.
- Implemented data preprocessing pipelines to improve dataset consistency.
- Optimized model performance through cross-validation, hyperparameter tuning, and ensemble methods, achieving ~85% classification accuracy.

Accenture, NY

Position: Computer Science Intern

June 2023 to July 2023

- Investigated a technological area to improve the transit experience for riders in a *North American* transit system by developing an AI surveillance system with *Python*, the *PyTorch* module, and a *MySQL* database.
- Led the development of the database and data management system for the project in collaboration with a team of five individuals. Ensured successful project implementation and proactively addressed any project delays.
- Presented to a group of 30 using PowerPoint to articulate recommendations and advice about the MTA riders
- Met project milestones and deadlines within the stipulated timeframe, ensuring timely delivery of deliverables.
- Received a rating of 4.5 out of 5 from team members for effective collaboration and contribution to group tasks.
- Successfully resolved 90% of project-related issues and obstacles independently or with minimal supervision, maintaining project progress and momentum.

Metropolitan Transit Authority (MTA) New York, NY

January 2023 to February 2023

Position: Information Technology Intern

- Formulated strategic plans to identify patterns for early defect detection, defect detection boost by 20%.
- Developed an application with online form submissions and picture uploads, boosting user engagement by 30% and reducing submission errors by 25%.
- Designed a secure user-server connection with SSL, achieving a 95% security audit score and zero breaches.
- Implemented two-factor authentication for safer logins and enhanced application security.
- Contributed to developing a post-API request for database updates, improving application efficiency.
- Led teams and implemented incentive plans, fostering continuous improvement and operational excellence.

EXTRACURRICULARS AND PROFESSIONAL SKILLS:

SpyBot – AI-Powered Phishing and Spam Detector

HackNYU, Feb 8-9, 2025

- Developed a Chrome extension for real-time phishing detection using JavaScript (Manifest V3), Python (Flask), and TensorFlow for AI-based classification.
- Developed an LLM-based phishing text analysis module utilizing OpenAI's GPT-4 to detect AI-generated phishing emails with a 98% accuracy rate.
- Implemented computer vision models for analyzing email logos, typography, and design inconsistencies to detect phishing attempts.

Software Skills: Advanced Microsoft Office, Microsoft Teams, Google Resources and Zoom.

Programming Languages: Python, SQL, AWS, HTML/CSS, JavaScript (Entry level)

Certificate:

Microsoft Azure Fundamentals | AWS Cloud Practitioner Essentials | Google Data Analytics

DataCamp Joining Data in SQL | DataCamp Introduction to SQL | AWS Certified Cloud Practitioner

Languages:

Native Ukrainian, English