

Claudio Perinuzzi

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EDUCATION

Queens College, City University of New York

Master of Arts in Computer Science

Bachelor of Arts in Computer Science

GPA: 3.85/4.00

May 2025

December 2024

TECHNICAL SKILLS

Programming: Python, Java, C/C++, JavaScript, HTML/CSS, PostgreSQL, MySQL

Frameworks: React, Streamlit, FastAPI, SQLAlchemy, Pandas, NumPy, PyTorch, JUnit, Scikit-Learn, OpenCV

Tools: Git, GitHub, Conda, Unix, Bash, Docker, Tableau, eClinicalWorks (EHR)

EXPERIENCE

Software Developer/Data Manager

May 2016 - Present

East End Hand Surgery

Port Jefferson, NY

- Develop Python applications to integrate with EMR systems, automating clinical workflows such as patient directory creation, email generation, and file encryption, saving staff 8+ hours each week.
- Manage 2+ TB of sensitive patient records, ensuring data integrity and security of backups.
- Led the successful reorganization of the company's file structure, significantly improving data retrieval and storage efficiency by 2x and directly contributing to increased clinical productivity.

Machine Learning Specialist - LLM Training & Debugging

April 2024 - Present

Data Annotation Tech

New York, NY

- Apply Reinforcement Learning from Human Feedback (RLHF) to enhance ML model efficiency.
- Debug/optimize code, ensuring compliance with ethical standards in data-sensitive environments.
- Leverage prompt engineering techniques to evaluate and improve model performance.

Software Engineering & Data Science Fellow

July 2024 - May 2025

CUNY Tech Prep

New York, NY

- Accepted into a highly competitive year-long fellowship applying modern software engineering practices and system design principles to develop full-stack solutions, utilizing version control and adhering to the software development lifecycle (SDLC).
- Applied machine learning and data engineering techniques such as, data cleaning, exploratory data analysis (EDA), statistical modeling, data visualization, model evaluation and optimization.

PROJECTS

C-Sphere | [GitHub Repository](#)

May 2025

- Collaborated with a team of 3 to build a full-stack web app that intelligently summarizes, organizes and helps users rediscover saved bookmarks through advanced search capabilities.
- Engineered a Retrieval-Augmented Generation (RAG) backend pipeline by combining intelligent content summarization, semantic vector search, and embedding-based storage/retrieval using PostgreSQL, resulting in optimized user data storage and intelligent content querying.

Breathe NYC | [GitHub Repository](#) | [Live Demo](#)

September 2024

- Developed a Streamlit web app using NYC OpenData public datasets to visualize, analyze, and predict yearly/seasonal AQI (Air Quality Index) trends for NYC neighborhoods, achieving 97% accuracy.
- Leveraged pandas and scikit-learn to build a data cleaning and linear regression machine learning pipeline, delivering actionable insights from raw data via an intuitive interface for critical decision support.

MindfulNet AI | [GitHub Repository](#) | [Live Demo](#)

May 2024

- Implemented a full stack web application using React that predicts social media addiction with 98% accuracy and offers personalized healthy habit recommendations based on user interests and location.
- Built a backend Random Forest machine learning model in Java to predict social media addiction given user-provided information, including social media habits and socioeconomic background.

PDF Encrypt | [GitHub Repository](#)

July 2023

- Developed a Python-based Graphical User Interface (GUI) to efficiently encrypt multiple PDFs simultaneously, allowing users to save time by securely encrypting files in bulk.