# EDUCATION

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**York College (YC), City University of New York (CUNY)** Queens, NY

Bachelor of Science in Computer Science Expected Spring 2026

GPA: 3.30/4.00

Relevant Coursework:

Data Structures and Algorithms, Object Oriented Programming, Discrete Mathematical Structures, Statistics and Probability

# SKILLS

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**Programming**: Python, C++, JavaScript, Java, HTML, CSS, Git/GitHub, Linux/Ubuntu

**Frameworks & Libraries**:

* **Machine Learning / Data Science**: NumPy, Pandas, Matplotlib, Scikit-learn, XGBoost, TensorFlow, Keras
* **Web Development**: MongoDB, Express, React, Node.js, Flask

**Spoken Languages**: Spanish (Conversational)

# RELEVANT EXPERIENCE

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**CUNY Tech Prep** New York, NY

Fellow, Data ScienceJul 2023 – Present

* Selected for a competitive data science fellowship with students from across the 11 CUNY senior colleges where Fellows create technical projects using tools such as Python 3, Jupyter Notebooks, Pandas, Numpy, Scikit-learn, and SQL.
* Participate in weekly courses and learn industry best practices for exploratory data analysis (EDA), feature engineering, data collection and processing, statistical modeling, data visualization, machine learning techniques, data science process, and big data.

**CISE Program @ Stevens Institute of Technology** Hoboken, NJ Research Intern August 2025

* Selected for NSF-funded CISE program to research Cybersecurity, AI, and IoT.
* Working with Stevens faculty on machine-learning experiments, data pipelines, and IoT security prototypes.
* Presenting findings in Fall 2025

**Tech Incubator @ Queens College** Queens, NY

Data Science Intern March 2025 – April 2025

* Refined an AI Business Analyzer using XGBoost and Random Forest to generate predictive insights.
* Analyzed clients’ sales data to identify key drivers, build dashboards, and recommend actions.
* Improved incubator clients’ websites for faster load times and enhanced UX.

# PROJECTS

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**AI Business Analyzer | Python, Flask, React, XGBoost, Pandas, Numpy**

* Developed a full-stack web application that used CSV sales data, performs feature engineering (lag and rolling features), and trains an XGBoost model using four years of historical retail data.
* Created a responsive React frontend that enables users to upload business data, visualize two-week sales forecasts, and download actionable insight reports.
* Presented methodologies and results at the Queens College Undergraduate Research Symposium (April 2025), earning commendation for clear visualization of feature-engineering impact and model performance comparison.

**Java Desktop RPG Prototype | Java SE 8, NetBeans 8, Swing, Git**

* Built a grid-based “world” using Swing (JFrame, JPanel, JButton, JTextPane) where a 64×64 PNG player sprite moves via arrow buttons, triggers collision detection to initiate turn-based battles, and logs actions in real time.
* Architected with OOP principles: used Hash Maps for dynamic stat management, MVC-style separation between world and battle modules, and Java 8 Consumer Function callbacks for live, cross-window logging.