Oscar Yang

oscaryang139@gmail.com • (917) 657-8152 • Queens, NY • <u>LinkedIn</u>

EDUCATION

City University of New York - Queens College   **Flushing, NY**
Bachelor's in Computer Science, Minor in Mathematics   *Expected Graduation: December 2027*
GPA: 3.76
<u>**Relevant Coursework:**</u> Data Structures, Design and Analysis of Algorithms, Software Engineering, Object Oriented Programming in C++ & Java, Discrete Mathematics & Structures, Computer Organization and Assembly Language, Computer Architecture, Calculus, Linear Algebra, Theory of Computation

SKILLS

Languages: Python, Java, C++, SQL
Tools: GitHub, VS Code, Jupyter Notebooks, Pandas, NumPy, Scikit-learn, Dev C++, IntelliJ, Eclipse

EXPERIENCE

CUNY Tech Prep   **July 2025 - Present**
Data Science Fellow   *Queens, NY*
- Selected for a competitive data science fellowship with students from across the 11 senior CUNY colleges where fellows create technical projects using tools such as Python 3, Jupyter Notebooks, Pandas, NumPy, Scikit-learn, and SQL
- Participated in weekly sessions to 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

CUNY Queens College   **March 2025 - May 2025**
Undergraduate Research Assistant   *Queens, NY*
- Engaged in comprehensive reviews of scholarly articles and research studies at the Post-Quantum Cryptography and AI Lab at Queens College, under the mentorship of Professor Delaram Kahrobaei, to deepen understanding of quantum machine learning and cryptographic methods
- Collaborated with a team of four to develop and present PowerPoint presentations on topics such as quantum machine learning and post-quantum cryptography, showcasing advanced technical concepts

PROJECTS

Elementary Stock Prediction | Python, scikit-learn, NumPy, Matplotlib
- Developed a machine learning pipeline to forecast stock prices using a 3 day lag window and Random Forest regression
- Engineered time series features and applied MinMax normalization to optimize model training on real-world financial data from Yahoo Finance
- Visualized predicted vs. actual prices to evaluate performance; built as a proof-of-concept with hardcoded inputs and reliable accuracy within a 1-year range

Connect 4 | Java, Processing
- Developed a dynamic, real-time version of Connect 4, integrating intuitive graphics using Processing.org to enhance user experience
- Designed an interactive gameplay system allowing seamless alternation of turns, ensuring smooth game logic execution

CERTIFICATIONS
- <u>Data Structures & Algorithms (Python) Certification</u>