

# Jonathan Wong

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Availability: May – December 2025

## EDUCATION

<b>Northeastern University</b> <i>Candidate for Bachelor of Science in Data Science; Khoury College of Computer Sciences</i> Courses: Large-Scale Information Storage and Retrieval   Database Design   Algorithms and Data   Data Presentation and Visualization   Advanced Programming with Data   Probability and Statistics	<b>Boston, MA</b> <i>Expected May 2027</i> GPA: 3.78/4.0
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## SKILLS

<b>Softwares/Libraries:</b> Scikit-learn, Pandas, NumPy, BeautifulSoup, TextBlob, Seaborn, Matplotlib, Docker, MySQL, Flask, DataGrip, Git, GitHub, Windows, Tableau, AWS
<b>Languages:</b> Python, SQL, C++, HTML, CSS, JavaScript

## PROJECTS

<b>Calorie Predictor Dashboard</b>   <i>Python, Pandas, Panel, SHAP, Matplotlib, Joblib, XGBRegressor</i> <ul style="list-style-type: none"><li>Built a machine learning dashboard with XGBoost, achieving a 1.48 kcal MAE to predict calorie expenditure from user inputs.</li><li>Developed a dynamic UI for real-time input adjustments and scenario-based predictions.</li><li>Integrated SHAP force and summary plots to explain individual and overall feature importance.</li><li>Created a historical data table for logging inputs and predictions.</li></ul>	<i>Dec. 2024 – Jan. 2025</i>
<b>SkillSeeker (Full-Stack Web Application)</b>   <i>Python, Flask, Streamlit, SQL, Docker, Github</i> <ul style="list-style-type: none"><li>Built 20+ API routes and 4 Streamlit pages for role-specific functionality and data management.</li><li>Implemented 12+ interactive visualizations to boost usability and efficiency.</li><li>Developed CRUD features for 4 distinct user personas.</li><li>Designed SQL databases and containerized the app with Docker for consistent deployment.</li></ul>	<i>Oct. 2024 – Dec. 2024</i>
<b>Artist Lyrics Analysis and Visualization</b>   <i>Python, BeautifulSoup, TextBlob, Plotly, Scikit-learn</i> <ul style="list-style-type: none"><li>Built an NLP framework to extract and clean lyrics from Kanye West's top 50 songs via Genius.com.</li><li>Implemented custom text processing (tokenization, stop word removal, sentiment analysis, rhyme density, repetition) that improved data accuracy and enabled in-depth analysis.</li><li>Built 3+ interactive visualizations that revealed key word associations and emotional trends.</li></ul>	<i>Nov. 2024 – Dec. 2024</i>
<b>Fantasy Football Trade Analyzer</b>   <i>Python, BeautifulSoup, Scikit-learn, Seaborn, Tkinter, PyInstaller</i> <ul style="list-style-type: none"><li>Developed a context-aware trade analyzer that computes projected starter points from full team and league data, processing 100+ simulated trades.</li><li>Leveraged multi-season NFL data to train linear regression models, producing correlation heatmaps and regression plots.</li><li>Packaged the tool as an executable with a Tkinter GUI via PyInstaller, streamlining installation and distributing it to 50+ fantasy football enthusiasts online.</li></ul>	<i>Feb. 2023 – Apr. 2023</i>

## EXPERIENCE

<b>Short Hills Club</b>   <i>Staff Member</i> <ul style="list-style-type: none"><li>Processed 40+ orders and served snack bar customers promptly.</li><li>Trained new staff in operations, boosting team efficiency.</li><li>Supported swimming events with 50+ attendees, collaborating with 6+ staff to maintain cleanliness, replenish buffet items, and handle member or supervisor requests.</li></ul>	<b>Short Hills, NJ</b> <i>May 2024 – Aug. 2024</i>
<b>Taylor Park Camp</b>   <i>Camp Counselor</i> <ul style="list-style-type: none"><li>Supervised 30+ campers with two counselors, ensuring safety and support.</li><li>Organized sports (basketball, soccer, kickball) to promote teamwork and fitness.</li><li>Directed bi-daily activities by selecting sports, forming teams, and managing games.</li></ul>	<b>Millburn, NJ</b> <i>Jun. 2023 – Aug. 2023</i>

Interests: Fitness, Guitar, Piano, Pickleball, New York Knicks