Jonnathan Saavedra

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EDUCATION

CUNY Queens College

Bachelor of Science in Computer Science   *Graduating Fall 2025 GPA: 3.4/4.0*

SKILLS

Languages: Python, C++, Java, HTML, CSS, JavaScript, MySQL

Tools and Frameworks: Vs Code, Microsoft Visual Studio, IntelliJ, PyCharm, Eclipse, React, Pandas, Numpy, Github, Bootstrap

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Code for All QC   February 2023 - Present
Board Member   New York, NY
• Instrumental in planning and executing comprehensive event strategies, ensuring a seamless experience for participants
• Actively contributing to the club's growth and engagement, with the group rapidly expanding to over 1,200 members
• Collaborating closely with club leadership to curate and deliver a variety of technical workshops and networking opportunities, enhancing members' professional development and exposure to the tech industry.

PROJECTS

Sentiment Analysis AI
• Implemented a logistic regression ML model to perform binary sentiment classification on movie reviews to achieve an accuracy of [66.5%]
• Utilized Bag-of-Words (BOW) representation to convert textual reviews into feature vectors
• Streamlined text processing, used regex, improved file consistency by 100%.

Floor Store Android App
• Collaborated with a team under a Waterfall Development model with SqlLite to develop an Android application in Java
• Implemented project planning, Entity-Relation diagrams, Use Case Diagrams, and progress reports to document the project

ToDoList Program
• Developed a To-Do List Program using Python's Tkinter library with features to add, delete, and save items.
• Implemented a JSON file for list storage and used Simpledialog for user input
• Integrated backup feature, ensuring 100% data recovery for users.

WWC Virtual Hackathon Participant
• Collaborated with a team of students to develop a website that used REST API to display information from a MYSQL database
• Developed code using Python which enabled users to access the correct data when searching for locations and services
• Utilized Pandas for data analysis, streamlined data processing, and facilitated faster decision-making.

EXPERIENCE

Queens College   July 2023 - Present
Computational Research Assistant   Flushing, New York
• Engineered simulation algorithms in Python, integrating the Opentrons API, to emulate pathogen dynamics in hospital settings.
• Utilizing OT-2, automated microbiology experiments, ensuring precise and reproducible results.
• Optimized and tested Opentrons-based scripts for consistent performance.

JP Morgan Chase & Co. Software Engineering Virtual Experience Participant   August-December 2022
• Set up a local dev environment by downloading the necessary files, tools, and dependencies.
• Implemented Python, Git, and JPMorgan Chase's open-source library called Perspective to fix broken client data feed scripts
• Resulted in generating patch files and adding unit tests which enabled the interface to show stock prices efficiently

Sunnyside Community Services   June 2023 - August 2023
Physical Enrichment Instructor   Sunnyside, New York
• Facilitated organized and safe activities to improve the physical skills of over 100+ students
• Organized student tournaments through collaboration with administration, boosting participation and skills, and garnering positive feedback

Certificates

AWS Cloud Technical Essentials
• Completed a 4-week foundational course on AWS, focusing on cloud computing basics, AWS services, and architecture.
• Gained practical experience in building scalable and secure cloud applications, with an emphasis on compute, storage, and database services.

Introduction to Front-end Developing
• Web development, learning Bootstrap and React through practical implementations of web pages, reinforcing HTML and CSS programming