Jorge Robles

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EDUCATION

City University of New York - Queens College | **Queens, New York**

B.A. in Computer Science   **December 2023**

B.A. in Music Education   **December 2019**

TECHNICAL SKILLS

Programming Languages: (Advanced): Python, Java, JavaScript, HTML/CSS, SQL. C++ (Intermediate), C (Beginner)

PROFESSIONAL EXPERIENCE

Bloomberg Tech Lab Fellow | **Bloomberg** | **New York, NY**   **April 2024**
- Utilized Python to design and implement a robust message queue system using RabbitMQ and Docker, enhancing real-time data processing and communication between producer and consumer components.
- Developed a deeper understanding of core Python/CS concepts (Classes, Inheritance, OOP), as well as financial domain knowledge (Tickers, Industry Sectors) while collaborating with Bloomberg Engineers.

Freelance Software Developer | **New York, NY**   **Sept 2022 - Present**
- Engineered a custom scheduling algorithm (Java/Python) for public school music lessons, eliminating manual scheduling and streamlining educational processes, saving 30 hours per user per year.
- Spearheaded the design and initial development of a full-stack, in-house inventory management web application (React.js, Node.js), streamlining business operations, increasing inventory turnover, and enabling enhanced inventory tracking impacting over 300 users.

Computer Science Tutor | **Queens College** | **New York, NY**   **Jan 2024 - Present**
- Utilized innovative teaching techniques leading to a significant increase in student performance on exams in software engineering, data structures, and algorithms courses.

Teacher | **New York City Department of Education** | **New York, NY**   **Jan 2019 - Sept 2022**

PROJECTS

Queens College Computer Science AI Advisor | **HackCUNY 1st Place Overall Winner**   **Feb 2024**
- Developed and implemented a cutting-edge AI-driven academic advising platform for students at Queens College, utilizing Flask, JavaScript, OpenAI's API, and Tailwind CSS to optimize the academic planning process.
- Implemented a comprehensive data analysis of user feedback to identify key pain points in the academic planning process, leading to the development of personalized AI-driven advice that reduced student planning time by 40%.

CUNYFirst Course Enroller | **Personal Project**   **May 2023**
- Automated course scheduling and tracking akin to popular application Coursicle leveraging Selenium WebDriver, measured by the system's capability to intelligently match and enroll students into their desired schedules while handling edge cases and sending real-time notifications using Twilio and Discord Webhooks.

LEADERSHIP EXPERIENCE

Founding Board Member | **Code For All Club** | **Queens College**   **Jan 2023 - Jan 2024**
- Directed a monthly workshop series for QC students on various computer science topics such as interview preparation, web development, front-end, back-end, data structures, algorithms, etc, leading to a 50% increase in workshop attendance and a 95% satisfaction rate based on post-event surveys.