

# Jorge Robles

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## EDUCATION

### Queens College

BA Computer Science

Queens, New York

Graduation Date: Dec 2023

### Queens College

BA Music Education

Queens, New York

Graduation Date: Dec 2019

## WORK EXPERIENCE

### Bloomberg Tech Lab

Bloomberg Tech Lab Fellow

New York, New York

Apr 2024 - Apr 2024

- One of 30 students selected to collaborate with Bloomberg engineers in a small group setting to build an application using RabbitMQ and Docker.
- Utilized Python to design and implement a robust message queue system using RabbitMQ, enhancing real-time data processing and communication between producer and consumer components.
- Developed a deeper understand of core Python/CS concepts (Classes, Inheritance, OOP), as well as financial domain knowledge (Tickers, Industry Sectors).

### Freelance Software Developer

Software Developer

New York, New York

Sep 2022 - Present

- Developed and maintain a Java and Python-based scheduler for public school pull-out music lessons through engineering a custom algorithm to automate the generation of schedules for clients, streamlining educational processes, achieving a total reduction in manual scheduling efforts and enhancing operational efficiency, saving 30 hours per user per year.

### Queens College

Computer Science Tutor

Queens, New York

Jan 2024 - Present

- Utilized innovative teaching techniques to improve retention rates among struggling undergraduates, leading to a 20% increase in student performance on exams in software engineering, data structures, and algorithms courses.
- Guided students through mock interviews and provided constructive feedback on problem-solving approach, leading to a 40% improvement in coding speed and accuracy.

### New York City Department of Education

Music Teacher

New York, New York

Jan 2019 - Sep 2022

- Implemented personalized music education plans for 300+ students, resulting in a significant increase in student engagement in several music programs offered by the school.
- Collaborated with school administration to secure \$30,000 in funding for new musical instruments and equipment, allowing for the expansion of the music program and providing enhanced learning opportunities for students.

## PROJECT EXPERIENCE

### HackCUNY 1st Place Hackathon Winner

Queens College Computer Science AI Advisor

New York New York

Feb 2024 - Feb 2024

- Developed and implemented a cutting-edge AI-driven academic advising platform for computer science students at Queens College, utilizing Flask, JavaScript, OpenAI's GPT technology, 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%.
- Collaborated with cross-functional teams to optimize system performance and user experience by fine-tuning data manipulation techniques, resulting in a significant decrease in generated advice "hallucinations", improving overall accuracy.

### Personal Project

CUNYFirst Course Enroller

New York, New York

- 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.

## LEADERSHIP EXPERIENCE

### Code For All

Lead Workshop Developer, Founding Board Member

Queens, New York

Jan 2023 - Present

- 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.