





# Jorge Robles

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 <https://github.com/Jorge-D-Robles/projects>

## EDUCATION

<b>Queens College</b> <i>Bachelor's in Computer Science</i>	December 2023
<b>Ithaca College</b> <i>Master's in Music Education (15/30 credits completed)</i>	August 2021
<b>Queens College</b> <i>Bachelor's in Music Education</i>	January 2020

## SKILLS

**Languages:** Python, Java, HTML/CSS, JavaScript, C++, C, SQL  
**Tools:** Git/GitHub, Unix Shell, IntelliJ IDEA, VS Code, Software Design Patterns, Artificial Intelligence, Linux, Flask  
**Additional Skills:** Education, Public Speaking, Coaching and Mentoring, Team Management, Strategic Leadership, Performance Management, Learning Methodologies, Music Production, Agile Methodologies.

## PROJECTS

- Music Lesson Schedule Builder** | *Java, IntelliJ IDEA, Python* October 2022/July 2023
- Developed a custom schedule generator for a school's music pull-out lessons, as measured by the successful randomization and compliance of 20 lesson groups with user-defined parameters. Improved efficiency with a 99% reduction in total time spent creating lesson group schedules prior to Schedule Builder. Leveraged Java's Object-Oriented Programming concepts and implemented a comprehensive GUI using the Swing library for the Java version, and by adopting a command-line interface for the Python version.
- Web Automation Project** | *Python, Selenium, Web Automation* March 2023
- Accomplished automated course scheduling and tracking akin to popular application Coursicle, 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. Leverages Selenium WebDriver for browser automation and employs a user-friendly approach to navigate the web platform. Integrates both Twilio and Discord webhooks to provide instant text message alerts.

## EXPERIENCE

- Freelance Software Developer - Jonas E Salk Middle School Music Dept** | *Software Development* Present
- Designed and developed a custom schedule generator for a school's music pull-out lessons in Java and Python, automating a process that saved hundreds of hours of manual scheduling, tailored to the school's unique requirements.
  - Accomplished the initial planning for a web-based inventory management system, as measured by a comprehensive blueprint and design specifications, by leveraging full-stack JavaScript for its future implementation.
- Code For All Workshop Developer - Queens College** | *Software Development* Jan 2023 - Present
- Led monthly in-person workshops for 40+ students pertaining to Software Engineering with topics including: "Setting Up a Development Environment", "Learning Beyond the College Curriculum" and "Preparing For Technical Interviews" as well as weekly online sessions for 30+ students covering technical interview preparation through the Leetcode platform.
- Music Teacher - NYC Dept of Education, New York, NY** | *Education* Aug 2021 - Sept 2022
- Planned and implemented a highly successful General Music curriculum for Grade 7 that focuses on digital literacy and composition through using software applications such as Apple's Garage Band and Google's Chrome Music Lab.
- Assistant Music Teacher - Roosevelt Union Free School District** | *Education* Jan 2021 - Aug 2021
- Substitute Teacher - NYC Dept of Education, New York, NY** | *Education* Feb 2020 - Jan 2021