

# Ibrahim Raouh

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## EDUCATION

**Fordham University**, New York, NY

Expected: May 2024

*Bachelor of Science in Math and Computer Science* | **GPA: 3.82**

**Curriculum** Algorithms, Organization, Data Structures, Calculus I & II, Multivariable Calculus, Discrete Math, Robotics, Web Development, Python

**Honors** Dean's List First and Sophomore Years, Faber Scholarship (2020 - 2024)

**Code Path Academy**, San Francisco, CA

May 2022 – August 2022

*Intermediate Technical Software Engineering Summer Program*

**Curriculum** Big O, Hash Tables, Linked Lists, Stacks and Queues, Binary Trees, Strings and Arrays

## SKILLS

*Programming & Markup Languages:* **Python3**, C++, C, HTML5 & CSS, JS, Swift

*Soft Skills:* **Trilingual Communicator** (English, French, Arabic), Public Speaker, Leader, Responsible, Detail-oriented

*Tools and Software:* **Docker**, **Agile** (Scrum), Adobe Creative Cloud, Automation with Python, Text Editing Suites, **AWS**, Windows, Linux, macOS, Xcode, Eclipse, **Google Cloud Platform**, VS Code, Emacs, Vim, VI, **Git**, DialogFlow CX and ES, TensorFlow, Robot Operating System

## EXPERIENCE

**Mobiblanca**, Casablanca, Morocco

June 2022 – July 2022

*Software/Machine Learning Engineering Intern*

- Developed a modular artificial intelligence customer support bot using Google's DialogFlow, implemented on 5 client websites
- Decreased wait time by over 70% and reduced costs by 45%. Averaged 4700 daily interactions and 130 daily tickets
- Advanced knowledge of logic flow design, web development, and implementation of APIs
- Tech used:** Python, NodeJS, JSON, DialogueFlow, Google Cloud, Microsoft SQL server for databases, Google cloud functions

**Fordham University & Department of Energy**, New York, NY

April 2022 – Present

*Research Assistant*

- Implement an extension to the Qiskit simulator to simulate 1-machine-multiple-users with automatic quantum bit distribution
- Improved deep learning algorithms and models using IBM's Quantum Computer and TensorFlow by 7%
- Doubled the efficiency of a deep learning algorithm (Logistic Regression) on quantum computers by manipulating the settings of qubits
- Tech used:** Quantum Computing Theories, Qiskit, IBM Q, TensorFlow, Jupyter Notebook, Python, Deep Learning Algorithms, API design

**Fordham IT Service Desk**, New York, NY

September 2021 – Present

*Technical Support Specialist*

- Solved technical issues for administration, faculty, staff, and students at the university

## TECHNICAL PROJECTS

**Spotter (iOS App)**

July 2022 - Present

- Building a Swift iOS app on XCode for workout scheduling and tracking, along with tutorials and progress charts
- Leading weekly scrum meetings with 3 team members, organized documentation and goals on Notion and Trello
- Tech used:** Swift, XCode, iOS development, Git, Docker, Github, Python, UX Design

**Large Arithmetic Expression Evaluator with C++**

December 2021

- Built a C++ Large Arithmetic Simulator with a GUI for calculations on integers of unlimited length (within memory capabilities)
- Tech used:** C++, Docker, Git, Algorithms, Function design, Classes, Binary Trees, Lists

**Fordham People Detector**

January 2022

- Raspberry Pi powered device plugs into walls in specific campus rooms and outputs the current capacity considering the humidity, sound levels, and temperature. The readings and estimate of capacity are posted on a website interface built with NodeJS, HTML & CSS
- Tech used:** Raspberry Pi, NodeJS, HTML, CSS, Python, Hardware

**D.A.I.S.Y. (Developed Artificial Intelligence System Yet)**

August 2020

- Coded a Bot that uses Text-to-Speech and Speech-to-Text algorithms to understand questions from the user and scrap the web for answers
- Tech used:** Python, Text-to-speech & Speech-to-text algorithms, Swift, XCode

## CAMPUS LEADERSHIP

**Vice President and Founding Member at Google Developers Student Club - Fordham Chapter**

August 2022 – Present

- Conduct technical workshops, computer programming labs, hardware projects, and technical interview preparation sessions for the members
- Collaborate with other Google Developers Student Club chapters around the country, as well as with Google development teams

**Research Director at Fordham's Computer Science Society**

August 2021 – August 2022

- Conducted over 15 tech workshops, programming tutorials, computer science study sessions, and weekly research sessions for more complicated concepts, such as quantum computing and deep learning, for our 400 club members
- Represented Fordham University in two virtual Hackathons and CS events organized by other universities

**Resident Assistant at Martyr's Court**

August 2022 – Present

- Assist 93 residents with transitioning to university residence hall life, supervising and responding to complaints, requests, and emergencies.
- Enforce university and residence hall rules and regulations.