

# Jonnathan Saavedra

[Portfolio Website](#) • [GitHub.com/Jshot117](#) • [jonnjstart@gmail.com](mailto:jonnjstart@gmail.com) • [LinkedIn](#)

## EDUCATION

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City University of New York Queens College

*Expected Graduation Winter 2025*

Bachelor of Science, Computer Science

Relevant Coursework: Software Engineering, Data Structures & Algorithms, OOP in Java and C++, Applied ML

## SKILLS

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Languages: Python, JavaScript, TypeScript, C++, SQL, Java, HTML, CSS

Technologies: React, LangChain, AWS, Azure, Bootstrap, SpringBoot, Git, MongoDB, Pandas

## EXPERIENCE

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**Incoming Full Stack Developer Fellow at CUNY Tech Prep**

Fall 2024 -Spring 2025

**Incoming Software Engineering Fellow at Headstarter AI**

July 2024-September 2024

**Software Engineering Intern**

July 2024-September 2024

*Jupiter Leo Production LLC*

- Improved educational platform with refined CSS, HTML, and JavaScript for an interactive UI.
- Implemented video event listeners and DOM manipulation for responsive web pages.
- Participated in code reviews and pair programming to enhance code quality.

**Software Engineering Research Intern**

July 2023 - Present

*Dennehy Microbiology Research Group*

Flushing, New York

- Led automation projects through engineering, optimization, and testing for consistent performance
- Engineered simulation algorithms in **Python**, integrating the Opentrons API, to emulate pathogen dynamics in hospital settings
- Automated microbiology experiments, with OT-2 robot ensuring precise and reproducible results improving efficiency by 70%

**Software Engineering Virtual Experience Participant**

August 2022-December 2022

*JP Morgan Chase & Co.*

Virtual

- Implemented Python, Git, and JPMorgan Chase's open-source library called Perspective to fix broken client data feed scripts
- Set up a local dev environment by downloading the necessary files, tools, and dependencies
- Corrected errors in the repository to ensure proper web application functionality

## PROJECTS

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**Movie Review Website - [Github](#)**

- Used **Bootstrap** and **React** to build a responsive website allowing users to review movies and look at the movie trailers
- Built backend using **SpringBoot** and **Java** for server-side logic and introduced a **REST API** to exchange data between frontend and MongoDB
- Integrated **MongoDB** database, using MongoDB Atlas and MongoDB Compass to store and manage user-generated content efficiently

**Technical Blog - [Blog](#)**

- Developed a technical blog using **React**, **TypeScript**, and **Tailwind CSS**, showcasing expertise in front-end development and modern web technologies
- Integrated Markdown support with react-markdown and syntax highlighting using react-syntax-highlighter, enhancing readability and code presentation
- Deployed website using Microsoft Azure and dynamic content loading through React Router, enabling smooth navigation and a seamless user experience

**Sentiment Analysis AI - [Github](#)**

- 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
- Utilized gradient descent for optimization, iteratively adjusting model parameters (weights and biases) based on the prediction error

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

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**Code for All QC- Executive Member**

- Delivered technical workshops and networking opportunities, enhancing over 1,400 members' professional development and exposure to the tech industry

**CodePath: Internship Connection Program**

- Completed tailored support program focused on application process, networking, and interview skills, connecting directly with top tech internships

**CodePath: Intermediate Technical Interview Prep**

- Enhanced algorithmic proficiency through intensive training, including hands-on coding challenges, mock interviews, and industry networking.

## Certificates

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**AWS Cloud Technical Essentials**

- Completed a 4-week foundational course on AWS, focusing on cloud computing basics, AWS services, and architecture