

Vishal Charran

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Education

CUNY - Queens College
Bachelor's Degree of Computer Science BS

Flushing, NY
Graduation May 2025

Work Experience

SOFTWARE ENGINEER INTERN - *Queens College Tech Incubator*

October 2022 – July 2023

- Collaborated with clients and entrepreneurs to develop websites, apps, and software with secure networking protocol based on their vision.
- Used Agile techniques to design and implemented an interactive and user-friendly chatbot for the Tech Incubator website with JavaScript, HTML, and CSS, ensuring seamless compatibility across all devices and browsers.
- Improved chatbot performance by implementing data tracking, resulting in a **20% increase** in customer success.
- The chatbot significantly contributed to a **15% improvement** in user satisfaction during demo testing by enhancing website navigation.
- Due to outstanding performance, I received a return offer for the fall, 2023 Semester.

COMPUTER SCIENCE TUTOR - *Freelance/Volunteer*

January 2022 - Present

- Conduct one-on-one and group tutoring sessions for computer science students, resulting in a **42% (3.4 GPA)** improvement in students' academic performance compared to the class average (**2.4 GPA**).
- Using my communication skills to Break down concepts of Object-Oriented Programming (**OOP**) and Algorithms in a clear manner with Visual Demonstration techniques, resulting in an impressive **95% average** score on class projects.
- Received positive student feedback for effective teaching and support, leading to improved academic performance.

GRAPHICS DESIGN - *Freelance*

September 2022 - Present

- Developed an algorithm for the company SaveWay to segment a list of **16,000 email** contacts, distinguishing subscribers from unsubscribers, and subsequently sent an email featuring an e-brochure that I designed to the remaining subscribers.
- Crafted visually appealing websites, logos, business cards, flyers, and custom shirts, ensuring they align perfectly with the unique visions of our clients. Those clients experienced a significant **uptick of approximately 30%** in customer acquisition, coupled with a noteworthy **15%** increase in customer success and retention rates.

Personal Projects

Stock Trading Website - Real Time Stock Data (JavaScript, Vantage API, Firebase): [GitHub](#)

- Designed and developed an interactive stock market simulator web application using **JavaScript**, **HTML/CSS**, and **Firebase** allowing users to practice trading stocks with fake money on **1000's of stocks**.
- Integrated **Alpha Vantage REST API** to pull real-time stock price data for dynamic user portfolio tracking and performance analysis.
- Implemented user authentication with **Firebase** to securely store user account information and trading portfolio data in the cloud.
- Created an intuitive and responsive user interface with CSS animations and effects to enhance user experience.
- Built core functionality from scratch including real-time order management, transaction processing, and account balance updates.
- Created custom graphical charts and indicators using Chart.js to visualize stock price movements and trends for enhanced trading insights.

Artificial Intelligence Exercise/Meal Prep Mobile App (Java, Open AI Api, SQL): [GitHub](#)

- Incorporated the OpenAI API to provide personalized plans to users, leveraging AI-driven recommendations for a tailored experience.
- Employed **AI** to develop an intelligent system that formulates product features such as weekly meal and exercise plans tailored to user-provided inputs, encompassing dietary restrictions, fitness objectives, schedules,
- Designed and implemented a **SQL** database to efficiently store and retrieve user profiles, preferences, and progress data, ensuring a seamless and personalized experience.

Dynamic 2D Racing Game (JavaFX): [GitHub](#)

- Developed a dynamic 2D racing game by implementing **Object-Oriented Programming (OOP)** principles for optimal code structure and maintainability. The project showcased proficiency in game development, graphical user interfaces, and **software design** while delivering an engaging user experience.

Automated Class Enrollment System (Selenium, Java Mail API, AWS): [GitHub](#)

- Dynamically wrote a script using Selenium to autonomously monitor classes, utilize HTTP interactions for real-time enrollment upon availability, and finally send an email to users confirming their enrollment was successful.
- Operated the script **24/7** in an EC2 **AWS** cloud environment.

Task Management Application (Java, SQL): [GitHub](#)

- Program a software application that assigns tasks to the department leader and students/employees can log in and update their progress on those tasks assigned to them.
- Create a Relational Database to store login and registration information for the application.

Skills

- **Technical Skills:** **Java** (Highly proficient), **HTML/CSS/JS** (Highly Proficient), **SQL** (Proficient), **C++** (Proficient), **Python** (Intermediate)
- **Tools and Frameworks:** **SQL**, **JavaFX**, **OpenAI API**, **Java Mail API**, **AWS**, **Selenium**, **Java Swing**, **GitHub**, **Android Studio**, **WordPress**
- **Course Work:** **Data Structures**, **Algorithmic Problem Solving (C++)**, **Object Oriented Programming in C++ and Java**, **Computer Organization and Assembly Language**, **Discrete Mathematics**, **Calculus I/II**, **Computer Architecture**
- **Specialties:** **Software Development**, **Mobile Development**, **Web Development**, **Desktop App Development** and **Workshop Developer for QC Code for All (Club)**