Vishal Charran

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Education

CUNY - Queens College — **Flushing, NY**
Bachelor's Degree of Computer Science BS — **Graduation May 2025**

Work Experience

SOFTWARE ENGINEER INTERN - *Queens College Tech Incubator* — **October 2022 – July 2023**
- Used Agile techniques to design and implement 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.
- Collaborated with clients and entrepreneurs to develop websites, apps, and software with secure networking protocol based on their vision.
- Due to outstanding performance, I received a return offer for the fall, 2023 Semester.

COMPUTER SCIENCE TUTOR - *Freelance/Volunteer* — **January 2022 – May 2023**
- 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 2021 – October 2022**
- 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 — [GitHub](#) or [My Portfolio Website](#)

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

Movie Streaming Platform (Node.js, SQL): [Demo Video](#)
- Developed a dynamic movie streaming platform using **Node.js** and JavaScript, integrating SQL for efficient data management.
- Implemented real-time movie details fetching from the IMDb API, including covers and ratings, enhancing user experience and engagement.

Dynamic 2D Racing Game (JavaFX): [Demo Video](#)
- 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): [Demo Video](#)
- 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.

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)