

**Education****Queens College [CUNY], Queens, NY**

Expected: Dec 2021

Master of Science in Computer Science, GPA: 4.0

**St. John's University, Jamaica, NY**

Graduated 2016

Bachelor of Science in Computer Science with Honors and Minor in Philosophy, Major GPA: 3.54, Scholastic Excellence Scholarship, St. John's Dean's List, National Philosophy Honors Society, Physics Honor Society, St. John's Honor Program

**Knowledge****Languages**

Java, Python, C++, C, C#, Prolog, MySQL, SQLite, Oracle, HTML5, CSS, JavaScript

**Software**

Eclipse, Swing, NetBeans, Visual Studio, Visual Studio Code, GitHub, MySQL Workbench, Excel, AWS, Google Cloud

**OS**

Windows, Linux (Ubuntu), Mac OS

**Coursework**

Algorithms, Object Oriented Programming, Responsive Web Design, Advanced Calculus, Software Engineering, Software Design, Numerical Methods, Advanced Data Structures, Distributed Computing, Operating Systems, and AI

**Work Experience****RF CUNY, HSI-STEM Research Assistant (Peer Mentor)**

Jan 2020 – May 2020

- Guided undergraduate students in approaching and understanding difficult abstract material during class
- Held office hours to supplement students' studies working with up to 30 students at the same time
- Strategized with Professor on how to better serve students
- Continued responsibilities shifting to a remote setting in response to Covid-19

**Graduate Projects****Numerical Methods (Dynamic calculator function)**

Java, Method Overloading, Binary Search, Simpsons Rule, Recursion

**Distributed Computing (Covid19 Shopping Simulation)**

Java, Synchronization using Java's Monitors, Multithreading, Unit Testing, Regression Testing, Client-Server Architecture

**Principles of Programming Languages (Stack-Based Intermediate Compiler)**

Java, IO Reader/Writer, Multiclass Inheritance, Exception Handling, Regression Testing, Unit Testing

**Undergraduate Projects****Software Engineering (MTG Deck Builder)**

Java, Regression Testing, Unit Testing, Exception Handling and Logging, Debugging, MySQL, Swing, JSON, GitHub, Team Project Collaborating with 20+ students working in teams of 4-5

**Advanced Data Structures (Parking Reservation System)**

Java, Client-Server Architecture, Encapsulation using OOP, Exception Handling

**Operating Systems (Car Simulator)**

Java, Multithreading, Inheritance using interfaces, Client- Server Architecture, Exception Handling

**Other Projects****Personal Website (<http://nilpatel.tech>)**

HTML5, CSS, JavaScript, Bootstrap, jQuery, popper.js, FullPage.js, Anime.js, Dijkstra's SP algorithm visualization using HTML5 canvas and JavaScript, responsive design

**Extracurricular Activities****Otaku-Brigade (St John's Club) – E-Board Event Coordinator (1 year), Movie Committee Head (1 year)**

Handled the logistics and finances of large campus events and managed complex collaborations with organizations from other universities. Organized, promoted and managed the club's monthly movies nights

**Duel Society (Student Group) – Group Leader and Administrator (3 years)**

Organized on campus tournaments and group trips to official tournaments to compete at a national level.

Moderated in person and online interactions between members and acted as a mentor to other members.

**Languages**

Japanese: Intermediate (Studied 2 years), Spanish: Intermediate (Studied 4+ years), Chinese: Basic (Studied 1 year)