

# Daniel Chelala

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## EDUCATION

### **City University of New York, College of Staten Island**

Master of Science, *Computer Science: Artificial Intelligence and Data Analytics*

Bachelor of Science, *Computer Science*

Bachelor of Science, *Biology: Health Science*

Expected May 2027

Expected Dec 2025

Jan 2022

### **Relevant Coursework:**

C++ Programming, Python Programming, Database Systems (SQL), Software Engineering, Cybersecurity Fundamentals, Networking and Security, Web Development, Data Structures, Analysis of Algorithms, Computer Game Programming, Machine Learning & Knowledge Discovery, Artificial Intelligence

## SKILLS

**Programming:** C++ (Advanced), Python (Advanced), HTML/CSS (Advanced), JavaScript (Intermediate), Java (Intermediate), Kotlin (Intermediate), SQL (Intermediate), Vue.js (Basic), Bash (Basic), R (Basic)

**Methodologies & Technologies:** Agile, SDLC, CI/CD, Security Principles; Git Version Control, GitHub, APIs, Linux

**Competencies:** Data Structures, Natural Language Processing (NLP), Machine Learning, Full-Stack Development

**Spoken Languages:** French (Intermediate), Spanish (Intermediate), Italian (Fair)

## PROJECTS

### **Language-Learning App**

In Progress

- Building upon AnkiDroid's open-source codebase with Kotlin, SQLite database management, and integration of OpenAI's Realtime API (real-time streaming LLM interactions), speech-to-text, and text-to-speech APIs
- Enabling users to practice language skills with an LLM via adaptive learning that adjusts to their proficiency level

### **UVC Scavenger Game**

May 2025

- Developed a 2D puzzle game in Unity/C#, incorporating riddles, sequence challenges, and layered logic puzzles
- Applied strong problem-solving skills to design progressive difficulty levels that maintain player engagement
- Implemented intuitive UI and thematic storytelling for an immersive gameplay experience

### **BERT Hate Speech Detection Model**

Jan 2025

- Trained a BERT model on a labeled Twitter dataset using tokenization and context-aware embeddings, achieving 82% accuracy and 0.23 cross-entropy loss to improve precision for subtle and context-dependent language patterns

### **Keylogger**

May 2024

- Built a discreet keylogger in C++ as part of Networking and Security coursework, recording keystrokes and saving them to a local log file while program runs invisibly in the background

### **Kitty Galore**

Apr 2024

- Developed a solo web application in HTML, CSS, and JavaScript to fetch and display random cat images via REST API, with user-specified tags, text, font styles, and image filters for personalized image generation

## VIRTUAL EXPERIENCE

### **CodePath – Intermediate Technical Interview Prep**

June 2025 – Aug 2025

- Program focusing on algorithms, data structures, Big O, and interview problem-solving using LeetCode-style questions.

### **GE Aerospace Explore Digital Technology virtual experience program on Forage**

Apr 2025

- Completed a Vue.js UI development simulation for the Frontend Development Team, demonstrating proficiency in Vue SFC Playground by implementing headings, images, buttons, and dynamic variable displays for efficient user interactions
- Drafted technical requirements and explored strategies to align specifications with business needs for effective solutions

### **CompTIA PenTest+ Cert Guide (PT0-002) on uCertify**

Dec 2024

## SUPPORTING EXPERIENCE

### **Pool Deck Attendant, Planned Companies**

Jersey City, NJ | May 2025 – Sept 2025

- Oversaw daily operations of a residential pool, ensuring a safe and secure environment through rule enforcement, access control, and routine inspections
- Supervised staff, handled resident communications, and managed close-down procedures

### **Receptionist, Four Fitness Hamilton Park**

Jersey City, NJ | Oct 2023 – July 2025

- Utilized effective communication as first point of contact for gym members, managed phone inquiries, and maintained a welcoming atmosphere; monitored and maintained proper pool chemical levels to ensure safety and hygiene

## ASSOCIATIONS

**Clubs:** CSI Computer Science Club, CSI Women in Technology Club