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*	Expected May 2027
Bachelor of Science, *Computer Science*	Expected Dec 2025
Bachelor of Science, *Biology: Health Science*	Jan 2022

Relevant Coursework:

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

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, Application Resiliency, Security Principles; Git/GitHub, 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 by integrating OpenAI API, text-to-speech API, speech-to-text API, SQLite database management, and Kotlin
- 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 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

Receptionist, **Four Fitness Hamilton Park**   Jersey City, NJ | Oct 2023 – Present
- Utilizing effective communication as first point of contact for gym members, managing phone inquiries, and maintaining a welcoming atmosphere
- Monitoring and maintaining proper pool chemical levels to ensure safety and hygiene

Lab Research Student, **College of Staten Island**   Staten Island, NY | Feb 2022 – Apr 2022
- Contributed to research on pathological tau protein related to chronic traumatic encephalopathy (CTE) and Alzheimer's Disease, assisting with data collection, analysis, and interpretation
- Gained experience in research methodology, including literature review, data management, and experimental procedure

ASSOCIATIONS

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