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 Jan 2026
Bachelor of Science, *Biology: Health Science*	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 & Markup Languages: C++, C#, Python, Java, Kotlin, R, SQL, Bash, HTML/CSS, JavaScript, Vue.js, XML
Data Science & Machine Learning: PyTorch, NumPy, Scikit-learn
Methodologies & Technologies: Agile, SDLC, CI/CD, Security Principles; Git Version Control, GitHub, APIs, Linux, Microsoft Office (Word, Excel, PowerPoint), VMware, VirtualBox
Certificates: CodePath – Intermediate Technical Interview Prep *(Aug 2025)*; uCertify – CompTIA PenTest+ Cert Guide (PT0-002) *(Dec 2024)*

RELEVANT EXPERIENCE

Computer Science Tutor, **College of Staten Island**   Staten Island, NY | Sept 2025 – Present
- Assisting students in tutoring lab and in classrooms, reinforcing concepts such as C++, Python, Artificial Intelligence, Git, and Computer Architecture
- Providing individualized guidance, helping students solve problems, debug code, and strengthen core programming skills

Research Assistant, **Research Foundation CUNY**   Staten Island, NY | Sept 2025 – Present
- Conducting research under faculty supervision on computational biology applications
- Programmed, trained, and evaluated a large language model (LLM) to detect tandem repeats in DNA sequences, utilizing PyTorch for model building, SciKit-learn for performance metrics, and NumPy for data manipulation

PROJECTS

Language-Learning App   In Progress
- Full-stack development building on AnkiDroid's open-source codebase, with frontend in Kotlin and XML layouts, backend SQLite database management, and integration of OpenAI's Realtime API (real-time streaming LLM interactions), speech-to-text, and text-to-speech APIs
- A self-initiated group project designed to help users practice language skills with an LLM through 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
- Fine-tuned a BERT transformer model using PyTorch and Hugging Face Transformers for hate speech detection, achieving 82% accuracy on test data and 0.23 cross-entropy loss and evaluated performance with SciKit-learn
- Implemented natural language processing (NLP) for text preprocessing and tokenization pipelines to prepare large-scale tweet datasets for training

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

WORK EXPERIENCE

Receptionist, **Four Fitness Hamilton Park**   Jersey City, NJ | Oct 2023 – July 2025
- Handled phone and in-person inquiries with professionalism, promoted and sold memberships to prospective clients
- Ensured safety standards by monitoring and balancing pool chemical levels with precision
- Upheld smooth facility operations through restocking, towel service, and ensuring a clean, organized gym environment

ASSOCIATIONS

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