

Daniella Qira

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🎓 EDUCATION

Stevens Institute of Technology,

Computer Science Major & Music and Technology Dual Degree

Aug 2021 – May 2026 | Hoboken, United States

GPA : 3.6/4.0

Awards: Presidential Scholarship, Martha Bayard Stevens Scholarship, Dean's List

Relevant Coursework: Data Structures, Algorithms, Linear Algebra, Systems Programming, Software Development Processes, Database Management Systems, Web Development

Acknowledged in a textbook titled "Computer Architecture & Organization", written by Professor Shudong Hao, for giving insightful feedback and making edits

Cornell University, online certificate in Machine Learning Foundations

Jun 2023 – Aug 2023

🧠 SKILLS

Programminng Languages

Python, Java, Kotlin, C++, C, C#, R, OCaml, Scheme, HTML, JavaScript, CSS, SQL, Bash, MAX/MSP/Jitter

Software Development Skills

Git, Jira, MySQL, MongoDB, Node.js, Microsoft Office, Google Workspace, Adobe Creative Suite, Figma

Data Science Tools

Pandas, Numpy, SciPy, Matplotlib, Seaborn, Scikit-learn, Jupyter Notebook, Keras, TensorFlow, PyTorch, Librosa, ChromaDB, MATLAB

🌐 LANGUAGES

English, French, Albanian

📁 PROJECTS

Grocery Genie Application, github.com/sleeplessdreamer/Web-Development-Final-Project

Jan 2024 – May 2024

- Developed a grocery list tracking app using JavaScript, HTML, CSS, and Handlebars.
- Created a fully interactive user interface following Human Computer Interaction principles.
- Implemented responsive and intuitive designs for optimal user experience across devices.
- Collaborated with a team of developers to deliver a seamless and user-friendly app.

Icarus Autonomous Car Software, Software Development Processes

Jan 2023 – May 2023

- Developed a comprehensive backend for a software system in Java for self-driving vehicles, enabling complete autonomous operation.
- Implemented comprehensive test automation frameworks and conducted rigorous testing, ensuring reliability of the autonomous driving software.
- Collaborated with cross-functional teammates, incorporating feedback to refine and optimize the software's performance.

Logisim Digital CPU Wiring, Computer Architecture and Organization

Jan 2022 – May 2022

- Designed and implemented a fully functional 4-bit digital CPU from the ground up, leveraging computer architecture and organization principles.
- Developed a compiler script to translate high-level Python code into machine-readable instructions executable by the custom-built CPU.
- Demonstrated proficiency in low-level programming, digital logic design, and code translation techniques.

👤 PROFESSIONAL EXPERIENCE

Audio Design Researcher, Stevens Institute of Technology

Jun 2024 – present

- Developed and implemented a customizable audio biofeedback (ABF) system to enhance postural control and balance training.
- Created and programmed audio presets that adapt in real-time to a user's postural movements, providing intuitive, personalized auditory feedback.
- Conducted preliminary testing and iterative prototype refinement to ensure feasibility and usability in real-world community and home settings.
- Documented project progress, findings, and methodologies in a comprehensive thesis, contributing to the field of auditory biofeedback and movement rehabilitation.

Diversity, Equity, and Inclusion Research Intern, Stevens Institute of Technology

Oct 2023 – present

- Played a key role in analyzing data and metrics to assess the effectiveness of DEI initiatives within the academic community
- Assisted in the development and implementation of initiatives aimed at enhancing diversity in faculty hiring processes
- Contributed to creating resources to educate faculty on best practices for fostering an inclusive and equitable academic environment
- Communicated with many senior executives about current DEI initiatives, maximizing student engagement, and the current student climate.

AI Studio Project Participant, Interactions

Aug 2023 – present

- Collaborated with a team of four to develop a machine learning model for detecting and classifying AI-generated audio.
- Gained valuable insights into model development, teamwork, and problem-solving.
- Demonstrated adaptability and resilience in overcoming challenges parsing data, and normalizing audio data.

Course Grader, Stevens Institute of Technology

Jan 2023 – May 2023

- Employed analytical and problem-solving skills to grade exams and assignments for CS550: Computer Architecture and Programming, ensuring fair and consistent evaluation of students' work.
- Conducted weekly office hours, providing support to students facing difficulties with course material, fostering an engaging learning environment.

🌱 LEADERSHIP EXPERIENCE

Break Through Tech, ML/AI Fellow

May 2023 – present | New York City

- Selected from 1500+ applicants to participate in Break Through Tech AI's program at Cornell Tech
- Participant in 12-month long program including Machine Learning coursework with Cornell faculty, experiential learning experiences, and mentorship from industry professionals
- Participant in workshops geared towards embracing and promoting diversity, equity, and inclusion in the tech industry

Student Government Association, DNI Chairperson

Dec 2023 – present | Hoboken

- Facilitated communication between 4,000 undergraduate students and administration to address concerns related to diversity, equity, and inclusion.
- Advocated for underrepresented groups by collaborating with administration and fellow students to improve and establish regular communications.
- Successfully organized the 'Pride After Dark' spring semester event, attended by approximately 10% of the undergraduate student body.

Stevens Pre-College, Residential Counselor

Jun 2023 – Jul 2023 | Hoboken

- Provided guidance and mentorship to over 600 pre-college students, fostering a supportive and inclusive residential community.
- Collaborated with a team to plan and execute daily educational and recreational activities, enriching students' social experience.
- Successfully managed and resolved conflicts within the residential community, ensuring the safety and well-being of all residents.