

Edgar Leon

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EDUCATION

Temple University, Philadelphia, PA **Haverford College**, Haverford, PA

M.M., Music Composition (Expected 2027)
Bachelor of Science, Computer Science & Music

GPA: 3.579/4.00

Senior Thesis: Reducing Human Oversight in Robotic Learning: Predicate-Based Approaches with Generative Language Models **Awards & Honors**: QuestBridge Scholar, John P. Chesick Scholar, NYU Film Scoring Scholarship Recipient, LAIW Grant Recipient

SKILLS

Languages: Spanish (Native Speaker)

Programming Languages & Scripting: Python, Java, R, C++, Visual Basic, C#

ML/AI: PyTorch; Deep Q-Networks/Reinforcement Learning, Hidden Markov Models; Ablation studies, evaluation, & experiment design

Genomics: Ensembl/DPGP2, preprocessing, pop-size inference

Web Development: JavaScript, React, Node.js, HTML/CSS, Firebase, Django, Chart.js

Tools & Frameworks: Docker, Streamlit, SPARQL, Markdown, JavaFX, Tkinter

Data Analysis and Automation: SQL, Web Scraping (BeautifulSoup, Selenium), Matplotlib, Scikit-Learn, Seaborn, Microsoft Report Builder

RELEVANT WORK EXPERIENCE

Software Developer Intern, *Leidos; Electronic Dental Records Admin Tool*, Houston, TX (Remote)

July 2024 - May 2025

- Developed Python quality gates and pre-deploy checks that reduced production defects before deployment to the live site
- Conducted load testing to evaluate system performance and reliability under various conditions
- Automated data collection via web-scraping tools to speed analysis

Full Stack Developer, Automation Engineer, & Data Analyst, Wade Clark Mulcahy, Philadelphia, PA

October 2023 – September 2024

- Redesigned the firm site → ~40% traffic lift and improved engagement
- Wrote Visual Basic scripts for bulk data migration; cut manual entry hours to near-zero
- Authored SQL for ProLaw (Live/Test) + Report Builder; delivered decision-driving reports
- Automated data entry for 10,000+ case matters overnight without business disruption

Software Developer, CRIM Project @ Haverford College, Haverford, PA

January 2023 - September 2024

- Maintained the PyPI package crim-intervals: added quality gates and aided in CI/CD
- Ported Digital DuChemin (Py2 \rightarrow Py3; Django 1 \rightarrow 4), and updated rendering and backend libraries
- Researched and developed new data rendering functions for advanced music data analytics; wrote Markdown docs
- Developed a SPARQL query streamlit widget for the Carnegie Hall Data Lab team
- Mentored and onboarded my successor, creating handoff docs and code walkthroughs to ensure continuity

RELEVANT PROJECTS

Computational Biology - Hidden Markov Model Population Trends (Drosophila melanogaster & Arabidopsis thaliana)

Deep Reinforcement Learning for Snake — Deep Q-Network generalization across obstacle complexity

Workout Logger App – Dynamic Workout Logging and Analysis Tool

Intervals Highlighter React Visualization Tool for Musicological Analysis for Citations: The Renaissance Imitation Mass (CRIM) Project Flight Reservation System

HIGHER-EDUCATION TEACHING & ADVISING EXPERIENCE

Graduate Teaching Assistantship, Aural Theory I at Temple University, Philadelphia, PA

Teaching Assistant, Data Science Course at Haverford College, Haverford, PA

Advising Intern, Center for Career and Professional Advising, Haverford College, Haverford, PA

Teaching Assistant, Encoding Music Course at Haverford College, Haverford, PA

August 2025 – Present

August 2024 – May 2025 August 2022 – May 2025

August 2023 – September 2024

OTHER EXPERIENCE

Summer Percussion Instructor, Waltrip High School, Houston, TX

Tutor, A Better Chance Lower Merion, Ardmore, PA

January 2023 – September 2024

Event Programming Intern, Center for Career and Professional Advising, Haverford College, Haverford, PA

October 2021 – May 2022

Summer Percussion Instructor, Elsik High School, Houston, TX

May 2021 – July 2022

July 2022 - August 2025