Steven Chiacchira

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Education

Miami University of Ohio   Awaited 2025
- Combined BS and MS in Computer Science with a 4.0 GPA
- Minor in mathematics

Newark High School   2020
- Graduated valedictorian with a 4.3 GPA.

Work Experience

ACT Intern   2023
- Developed web scraping tools to automatically source data from various websites.
- Implemented an experimental database using Git and Python.
- Created toolchain leveraging OpenAI's large language models.

Teacher's Assistant   2023
- Worked one-on-one in class of 20 students to elicit understanding of material.
- Entrusted with accurately grading student work both manually and using scripts.

Research Experience

Miami University of Ohio College of Engineering and Computing   2022 - 2023
- Examined and classified Java security vulnerabilities for machine learning.
- Implemented novel adversarial training algorithms in CNN models using PyTorch

Miami University of Ohio Department of Chemistry and Biochemistry   2022
- Trained PyTorch and TensorFlow based machine learning models for the discovery of novel retrosynthesis pathways.
- Implemented online platform for student use as a solo full stack developer.

Skills and Further Experience

- Implemented a lightweight, multithreaded SQL server in C++.
- Designed and implemented a mock university database on Google Cloud using SQL.
- Spearheaded UML documentation of a multiplayer browser game and implemented backend using Docker, Node.js, and Express. Managed team Git repository.
- Redeveloped browser game using Sass, Deno, Typescript, and Oak in an object-oriented style as a solo developer.
- Certified ICAgile professional

Honors and Awards

- Miami University President's List   2020 - 2023
- Licking County recipient of Miami University's Governor's Scholarship   2020
- National Merit Scholar   2020