

Steven Chiacchira

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Education

Miami University of Ohio

Awaited May 2025

- Combined Bachelor's and Master's degrees in computer science with a 4.0 GPA
- Minor in mathematics

Newark High School

May 2020

- Graduated valedictorian with a 4.3 GPA

Professional Experience

Intern at Textron Aviation

Summer 2024

- Led team discussions with various departments to understand their data needs in a business context
- Used Microsoft Azure and Purview to implement datamesh-style data products describing aircraft
- Designed and documented automated deployment procedures for an Apache Spark compute cluster

Graduate Assistant at Miami University of Ohio

2023, 2024 - 2025

- Worked one-on-one in a class of 20 students to elicit an understanding of course material
- Entrusted with accurately grading student work both manually and using automated systems

Intern at ACT Inc.

Summer 2023

- Developed web scraping tools to automatically source data from news websites
- Implemented an experimental distributed database using Git and Python
- Created a toolchain leveraging OpenAI's large language models for fuzzy classification

Miami University Student Instruction Leader

2021 - 2022

- Developed and presented curricula to groups of hundreds of concurrent students
- Worked with the course professor to understand department expectations

Research Experience

Miami Laboratory of AI Security Research (LAI SR)

2024 - 2025

- Chief software architect for lab adversarial machine learning projects
- Implemented a custom mutation framework for finding faulty autoencoder models
- Led team effort to design a library for immunizing images against diffusion models

Miami University College of Engineering and Computing

2022 - 2024

- Implemented novel adversarial training algorithms in CNN models using PyTorch
- Examined and classified security vulnerabilities in Java applications for use in a machine learning system

Miami University Department of Chemistry and Biochemistry

2022

- Trained PyTorch and Tensorflow machine learning models to discover novel retrosynthesis pathways
- Implemented an online platform for student use as a solo full stack developer

Skills

- Implemented a lightweight, multithreaded SQL server in C++
- Led a team to create a multiplayer, containerized browser game using Docker and NodeJS
- Designed and implemented a mock university database on Google Cloud using SQL
- Redesigned a website offering resources to the homeless to conform to accessibility standards
- Participated as a member of Miami University's Putnam exam team
- Certified ICAgile professional

Honors and Awards

Miami University President's List

2020 - 2024

Licking County's recipient of Miami University's Governor's scholarship

May 2020

National Merit Scholar

May 2020