

Steven Chiacchira

✉ schiacchira@gmail.com [in](#) [LinkedIn](#) [GitHub](#) [Website](#)

Education

Master's Degree in Computer Science

Spring 2025

- Master's degree from Miami University 4.0 GPA | summa cum laude
- Bachelor's degree from Miami University 4.0 GPA | summa cum laude
- Minor in mathematics. 2 years of Mandarin and chemical engineering study

Professional Experience

ML Engineer | Laboratory of AI Security Research

2022 - 2025

- Led laboratory artificial intelligence and computer vision projects. Mentored new engineers
- Published COMPSAC paper on a novel Python framework for mutating Keras autoencoders
- Published [framework](#) collating attack and defense algorithms for image models to [PyPI](#)
- Devised probabilistic immunization algorithms for defending against deepfake-style attacks
- Implemented novel adversarial training algorithms based on distribution and information theory
- Designed and maintained build systems, documentation, and GitHub CI/CD integrations

Data Science Intern | Textron Aviation

Summer 2024

- Led team Bayesian statistical inquiry quantifying factors contributing to aircraft sales
- Presented team findings to upper management, regularly communicated expectations
- Deployed and maintained Azure-hosted data products. Implemented data governance policies
- Implemented data pipelines using Azure Data Factory for analysis of aircraft data
- Proposed and led Apache Spark deployment to analyze aircraft sensor data using Docker on Linux
- Advised veteran engineers on the internals of Docker, wrote detailed deployment documentation

Machine Learning Intern | ACT Inc.

Summer 2023

- Applied NLP techniques to candidate reading passages, reducing manual costs by 50%
- Designed graphical UI system for use by nontechnical employees over multiple sprints
- Completely eliminated server costs by implementing a distributed database using Git and Python
- Developed web scraping tools to automatically source data from news websites

Projects and Skills

- **Deep Neural Networks:** Designed deep [skeletonization model](#) for identifying roads from satellites
- **Machine Learning, Leadership:** Led team [monitoring deforestation](#) in the Amazon rainforest
- **Reinforcement Learning:** Trained neural network to play videogame from live pixel data
- **Python, Web APIs, YAML:** Built a Discord [dice bot](#) supporting unique mechanics for RPG nights
- **Linux, Docker, Git:** Built a [makefile-based system](#) for deploying configurations to Linux systems
- **SQL, C++, Multithreading:** Implemented multithreaded SQL language parser and server
- **Rust, Technical Writing:** Proposed and implemented novel [encryption scheme](#) using automata
- **C#.NET, MAUI, UX:** Designed and built recipe planning app with C# MAUI
- **Javascript, CSS, Docker:** Led team to design [multiplayer online game](#) with ExpressJS and Docker
- **Mathematics, Problem Solving:** Placing member of Miami University's Putnam Competition team
- **Collaboration, Agile Methodology:** [Certified](#) ICAgile professional
- **Public Speaking:** Developed and presented curriculum to hundreds of concurrent students
- Experience with linear algebra, optimization, probability theory, and statistical methods
- Licensed ham radio operator. Callsign KF8-CAL

Honors and Awards

Miami University President's List

2020-2025

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

2020-2024

National Merit Scholar

2020