

Steven Chiacchira

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Summary

Self-starting, detail-oriented AI and Machine Learning Engineer with 3+ years of experience. Focused on people over processes and impact over best practice. Strongly motivated by challenging problems.

Education

Master's Degree in Computer Science

May 2025

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

Work Experience

ML Engineer @ The Laboratory of AI Security Research

Nov 2022 - May 2025

- Led laboratory artificial intelligence and computer vision projects. Mentored two new engineers
- Published COMPSAC paper on a novel Python framework for mutating Tensorflow autoencoders
- Published [framework](#) collating attack and defense algorithms for image models to [PyPI](#)
- Devised three probabilistic immunization algorithms for defending against deepfake-style attacks
- Proposed, designed, maintained build systems, documentation, and GitHub CI/CD integrations

Data Science Intern @ Textron Aviation

Jun 2024 - Aug 2024

- Led team Bayesian statistical inquiry. Found factor correlated to 100% increase in aircraft sales
- Presented team findings to upper management, regularly communicated expectations
- Deployed and maintained Azure Data Factory pipelines. Implemented data quality policies
- Proposed and led Apache Spark deployment to analyze petabytes of aircraft sensor data on Linux
- Convinced senior engineers to adopt Docker, wrote deployment documentation

Machine Learning Intern @ ACT Inc.

Jun 2023 - Aug 2023

- Applied NLP techniques to candidate reading passages, reducing labor costs by 50%
- Developed web scraping tools to collect data from hundreds of news websites for free
- Collaborated with nontechnical employees to build Qt GUIs over multiple sprints
- Completely eliminated server costs by implementing a distributed database using Git and Python

Projects and Skills

- **Deep Neural Networks:** Designed deep [neural network](#) 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
- **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 using 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
- Experienced with optimization techniques, statistical techniques, analysis techniques
- **Collaboration, Agile Methodology:** [Certified](#) ICAgile professional
- **Public Speaking:** Developed and presented curriculum to hundreds of concurrent students
- 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