

# Alessandro Ferrari

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## EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing, College of Biological Sciences

Atlanta, GA

Bachelor of Science in Computer Science, Minor in Biology

May 2026

• **Concentration:** Intelligence, Systems & Architecture, *Dean's List*

GPA: 3.93

## EXPERIENCE

Maverick Biometals (YC S22)

San Antonio, TX

**Machine Learning Engineer Intern**

May 2024 - August 2024

*Maverick manufactures enzymes that mine metals, clean oil, and perform a variety of commercial tasks.*

- Managed the ML department leading 4 engineers
- Developed generative protein design system combining distributed HPC and ML for protein fitness landscape exploration
- Worked directly with CEO in daily meetings to align the company's vision with its technology, focusing on generating value
- Contributed to state of the art protein engineering models METL (Gitter Lab, UW Madison) and FragFold (Wei-Li, MIT)

Biocentis

Milan, Italy

**Software Engineer Intern**

May 2023 - August 2023

*Biocentis is an agrotech company that leverages genetic engineering for vector pest control.*

- Developed a GPU Agent Based Model to represent the Drosophila Suzukii from the Genotype to Swarm flight pattern
- Leveraged GPU C++ algorithms to cut down simulation time from 8 hours (CPU + Python) to 3 minutes (GPU + C++)
- Worked on GPU/CPU interoperability and developed a low level cross language simulation algorithm
- Led biology-informed project from brainstorm to deployment, informing non-technical stakeholders of engineering choices

Egicon S.r.l.

New York, NY - Modena, Italy

**Firmware Developer Intern**

June 2021 - July 2021

*Egicon S.r.l. designs and produces "Plug & Play" electronic solutions for high-performance systems.*

- Developed bare metal C++ software based on internal datasheet for custom hardware components
- Shipped embedded firmware to production circuit, which was printed and deployed on the field 10'000+ times
- Integrated industry standard communication protocols (ModBus) to ensure integration and longevity of product

WestSide Eats

New York, NY

**Software Engineer**

Sept 2021 - Jun 2022

*WSE is a New York based nonprofit startup specializing in food deliveries.*

- Leveraged agile software development to ship product to hundreds of users on a weekly basis
- Led end-to-end project lifecycle of internal ReactJS tools to cut development time and enable client menu outsourcing
- Oversaw integration of industry-standard payment technologie, Square, achieving \$300+ in weekly revenue

## RESEARCH

Gibson Lab @ Georgia Institute of Technology - Publication Currently in Review

Atlanta, GA

**Research Associate**

June 2023 - Aug 2024

*Single cell transcriptomics for Gene Expression prediction*

- Performed machine learning and statistical analysis on human PBMC data and reported results in weekly meetings
- Developed a framework that automates testing and ranking of large numbers of clustering algorithms

## LEADERSHIP

Georgia Tech Bioinformatics Club

Atlanta, GA

**Vice President of Content Direction**

Jan 2023 - Present

- Present to 50+ club attendees ranging from undergrad to PhD in weekly meetings on various bioinformatics topics
- Work with exec team and various companies, labs, faculty, and leading bioinformatic voices to organize club talks

## SKILLS/INTERESTS

**Technologies:** Python, Java, C/C++, Rust, R, Typescript, React, Tensorflow, Jupyter, Git, AWS, Linux, Docker, Vertical Integration

**Affiliations:** Human Genomics Journal Club, Grand Challenges

**Awards:** First Place in the RomeCup robotics competition in 2015, Second place in 2014

**Languages:** Italian - Native, English - C1, French - Basic, Latin - Proficient