

# Alessandro Ferrari

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## EDUCATION

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**GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing, College of Biological Sciences** **Atlanta, GA**  
**Bachelor of Science in Computer Science, Minor in Biology** *May 2025*  
● **Concentration:** Intelligence, Modeling & Simulation **GPA: 3.91**  
● *Dean's List*

## EXPERIENCE

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**Maverick Biometals (YC S22)** **San Antonio, TX**  
**Incoming Machine Learning Engineer Intern** *May 2024 - August 2024*

*Maverick uses machine learning to manufacture enzymes that mine metals.*

- Working on the main ML platform for de-novo enzyme generation using state of the art deep learning models
- Founded in 2022, Maverick has been backed by Y Combinator (S22) and has raised \$10 million dollars in seed funding

**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++)
- Led biology-informed project from brainstorm to DevOps, communicating complex concepts to non-technical stakeholders

**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 employer datasheet for their custom hardware components
- Shipped embedded firmware to production circuit, which was printed and deployed on the field 1000+ times
- Employed industry standard communication protocols (ModBus) to ensure integration of product

**WestSideEats** **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 paying 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 technologies like Square, achieving \$300+ in weekly revenue.

## RESEARCH

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**Gibson Lab @ Georgia Institute of Technology** **Atlanta, GA**  
**Single cell transcriptomics for Gene Expression prediction** *June 2023 - Present*

- Prepared human blood immune system data to use as control during transcriptomic modeling and analysis
- Established a pipeline that turns raw scATAC and scRNA reads into aligned, quality-controlled, analysis ready data
- Performed Machine Learning and statistical analysis on human PBMC data and reported results in weekly meetings
- Developed a framework that automates testing large numbers of clustering algorithms to determine best performing

## SKILLS/INTERESTS

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**Technologies:** Python, Java, C, C++, Rust, R, Javascript, HTML, CSS, Typescript, React, Tensorflow, Jupyter, Git, JIRA, AWS, Linux, Docker,

**Affiliations:** VP of Content Direction @ Georgia TechBioinformatics Club, 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