

Emmett Hintz

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EDUCATION & HONORS

- Colgate University**, Hamilton, NY May 2025
Bachelor of Arts; Computer Science Major, Economics Minor Cumulative GPA: 3.74 / 4.00
- Completed coursework in computer science, data science, machine learning, calculus, economics, and statistics.
 - Recipient of Dean's Award for Academic Excellence With Distinction (Spring 2022 - Spring 2024).
- New York University AI School**, NYU's Center for Data Science, New York City, NY May 2023
- Completed a data science and machine learning course, collaborating with peers to explore new subjects.

PROFESSIONAL EXPERIENCE

- Computational Biologist**, Colgate University, Hamilton, NY May 2024 - Present
- Developed and implemented a computational pipeline for processing and analyzing next-gen high-throughput sequencing data in seal environmental DNA (eDNA) research.
 - Leveraged DADA2 for denoising and merging paired-end reads, ensuring high accuracy in sequence variant identification.
 - Conducted rigorous filtering, error correction, and chimera removal, resulting in high-quality sequence datasets for subsequent ecological analysis.
- Computational Biologist**, Colgate University, Hamilton, NY May 2024 - August 2024
- Conducted computational biology research to explore miRNA biomarkers in the progression of prostate cancer stages.
 - Applied machine learning models (XGBoost, SVM, Transformers) to identify two novel biomarkers with potential clinical applications.
 - In the process of publishing research findings as the first author.
- Software Engineer**, Tewke, London, UK October 2023 - December 2023
- Designed and developed a comprehensive web dashboard for Tewke's internal operations.
 - Utilized React, Next.js 13, TailwindCSS, JavaScript, TypeScript, and SQL to develop a responsive user interface.
 - Collaborated closely with senior software engineers and hardware engineers, benefiting from their expertise and integrating feedback to refine and optimize the dashboard.
- Teaching Assistant**, Colgate University, Hamilton, NY Spring 2023 - Spring 2024
- Assisted the professor in streamlining the learning environment and preparing effective lab teaching sessions.
 - Provided individual guidance to students during group sessions to enhance their learning experience.

SKILLS & PROJECTS

- Languages:** Python (Advanced), R (Proficient), Java (Proficient), C (Intermediate)
 - Web Development:** JavaScript (Proficient), TypeScript (Proficient), React.js (Proficient), Next.js (Proficient)
- Antidepressant Biomarker Research** Spring 2024
- Conducted computational biology research using machine learning to identify molecular markers for predicting response to the antidepressant Duloxetine.
 - Cleaned and preprocessed large datasets for accurate model training.
 - Applied machine learning models such as Random Forest and Neural Networks to analyze patient data and predict response outcomes.
- Typing Tutor:** <https://github.com/EmmettHintz/Typing-ML-Project> Spring 2024
- Developed a project using web development and machine learning to enhance typing skills by analyzing user patterns.

CAMPUS INVOLVEMENT & LEADERSHIP

- Colgate Investment Group**, Colgate University, **Executive Board/Consumer Retail Leader** Fall 2022 - Present
- Influenced executive board decisions on a \$40,000 portfolio and organizational matters for a 180-member group.
- NCAA Division 1 Track and Field**, Colgate University, **Long Jump & Sprints** Fall 2021 - Fall 2022