

LAUREN SABO

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Education

Georgia Institute of Technology, Atlanta, GA

December 2025 (expected)

Major: Computer Science, Concentrations: Media & People

- Dean's List at Georgia Tech

Fusen World, *Fusen Fellow*

May 2024 — Aug. 2024

- Selected as 1 of 19 technically talented students for the inaugural Fusen Fellowship Program.
- Engaged in intensive 13-week training covering customer discovery, MVP development, iterative design, and more.
- Successfully launched a startup by the end of the program.

Research

McGrath & Streelman Lab, *Bioinformatics Researcher*

May 2022 — Present

A population genomics lab with a focus on Lake Malawi Cichlids

- Programmed a multiprocessing script within Python for the Genome Analysis Tool Kit (GATK) to process big data, such as multiple FASTA and VCF files at once.
- Spearheaded the processing and analysis of large-scale genomic datasets for Lake Malawi cichlids, utilizing advanced bioinformatics tools and programming languages such as Python.
- Collaborated with graduate students to share resources, data, and methodologies, fostering a cooperative research environment, and contributing to the broader scientific community's understanding of cichlid evolution.
- Writing an undergraduate thesis on the genomic assembly and annotation of Lake Malawi cichlids, contributing to the generation of high-quality reference genomes to enhance understanding of population structure and evolutionary dynamics.

Projects

"Expanding the Lake Malawi cichlid genome using high quality long-read sequencing", *Head Researcher*

Jan. 2024 — Present

- Executing rigorous bioinformatics analyses to assemble and annotate complex genomic sequences, enhancing the genomic resources available for studying cichlid speciation and diversification.
- Enhancing the existing *M. zebra* reference genome (UMD2a) and developing the reference genomes of *M. conophoros*, *C. virginalis*, *A. chitande*, and *L. fuelleborni*.

Chattahoochee River Conditions App – iOS Development, *Full Stack Software Engineer*

Jan. 2024 — Present

- Developing in React Native and JavaScript, the app is intended to provide real-time river conditions for the GT Rowing Club.
- Is connected to the USGS Watershed Services database for updates and tells the user when the conditions are unsafe/ safe.

Work Experience & Leadership

Quuri, *Co-founder & Chief of Product Design*

May 2024 — Present

- Conducted comprehensive customer discovery, and spearheaded UI design, creating intuitive and user-friendly interfaces that enhanced user experience and engagement.
- Developed and launched a responsive website using Node.js, driving the online presence and accessibility of Quuri's services.
- Engineered full-stack solutions, including real-time data updates via Firebase, ensuring seamless performance and scalability of the platform.

GT Rowing Club, *Rower, Coxswain, & Board Member*

Feb. 2022 — Present

Head Coxswain (2024): Leader of coxswain education and manager of coxswain equipment.

Merchandise Officer (2023): Developed a team brand and coordinated merchandise inventory with distributors.

- Medaled at the Southern Intercollegiate Regatta (SIRA) (Knoxville, TN), Head of the Hooch Regatta (Chattanooga, TN), Head of the South Regatta (Augusta, GA), Secret City Head Race (Knoxville, TN), and more.
- Commits 25+ hours weekly to overseeing rowers, conducting practice, and organizing coxswain resources.

Gold & Bold Coffee Roasters, *Barista*

Nov. 2022 — Aug. 2024

- Skilled in customer service and food prep in a high-speed environment.

Skills & Concepts

Computing Languages & Software:

Java, Python, JavaScript, React/ Node.js, HTML, CSS, C, R, Assembly Code, Docker, Swift

Bioinformatics:

Dry-Lab: Genome Sequencing Software (HiFi.asm, Flye, LJA), BioNano UI, Command Line, Binary Alignment Map (BAM) Files, Variant Call Format (VCF) Files, Genome Analysis Tool Kit (GATK)

Biotechnology: Qubit Quantification, Nanodrop Quantification, Gel Electrophoresis, SDS-PAGE Gel Electrophoresis, DNA Isolation, Restriction Digest/PCR, ELISA, Care of BSL1-Level Bacteria, Stain Protocols, Care of *C. elegans*

Concepts: Object-Oriented Programming (OOP), Front-End Software Development, Computer Architecture, Data Structures, Genomic Assembly, Computational Biology, Multiprocessing, UX-Design, Linear Algebra, Differential Equations