

Jason Laureano

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Education

University of Central Florida

BS in Computer Science

GPA: 4.0 (Dean's List)

Honors: Tau Beta Pi Engineering Honor Society (Inducted 2025), Summa Cum Laude

Relevant Coursework: Data Structures and Algorithms, OOP, Machine Learning, Database Systems

Orlando, FL

Graduated: Aug 2026

Experience

Undergraduate Learning Assistant – Intro to C

Aug 2025 – Dec 2025

University of Central Florida

- Held weekly office hours through Zoom to assist a class of **160+** students with programming assignments and problem-solving.
- Organized weekly meetings with the professor to report progress, raised concerns with student understanding of difficult material, and proposed ideas for improving course content.
- Provided one-on-one support for students struggling to understand concepts like dynamic memory allocation and pointers, improving comprehension and exam confidence.
- Designed and wrote **8** study sheets in Markdown consisting of conceptual review and practice problems, **2 of which included hands-on mini-projects.**

Projects

LabScity | *TypeScript, React, Vercel, Next.js, Mantine, Supabase, TanStack Query*

Jan 2026 – July 2026

- Managing a team of 4 as **Scrum Master** and **lead frontend developer** for the 2nd iteration of a science-focused social networking platform deployed on **Vercel**, running sprint planning and retrospectives and maintaining the product backlog in **Jira**.
- Built a collaborator recommendations widget in **React** and **Mantine** that displays researchers ranked by cosine similarity, fetched via a **Next.js** API route and cached with **TanStack Query**.
- Integrated **OpenAlex's** REST API with **Next.js** server actions to auto-populate a researcher's publications page from their ORCID iD or a work's DOI, normalizing metadata into **Supabase** relational tables through a tagging system.
- Refactored the v1 frontend to improve load times and perceived performance by introducing **Mantine** skeleton components, **TanStack Query** optimistic updates, data prefetching, and smarter cache invalidation.

Tably | *Python, FastAPI, React, music21, alphaTab*

Feb 2026 – Apr 2026

- Built the **Python/FastAPI** backend for a web app that converts sheet music into playable guitar tablature, parsing scores with **music21** and exposing a REST API consumed by a **React + alphaTab** frontend.
- Modeled tab generation as a shortest-path problem and implemented the **Viterbi algorithm** to choose optimal string/fret assignments for each note, minimizing hand movement and awkward fingerings across the piece.

Where's My Water? | *TypeScript, Vite, MongoDB, Express.js, React, Node.js, Bootstrap*

Oct 2025 – Nov 2025

- Led a team of 7** that developed a **full-stack MERN** web app and **Flutter** mobile app for mapping 30+ water fountains on UCF's main campus with real-time crowd-sourced water filter quality ratings.
- Built voting backend using **Express.js** with 24-hour rolling aggregation of user submissions, and implemented **React** frontend from **Figma** prototypes using **TypeScript** and **Bootstrap**.
- Designed **MongoDB** collections with **compound indexes** and **TTL indexes** to expire votes, enforcing a 24-hour rolling window at the database level.
- Built a **CI/CD pipeline** with **GitHub Actions** to automate **Jest unit and integration tests** and deployment to **DigitalOcean droplet** with **nginx**.
- Coordinated weekly project meetings, managed task delegation using a **Trello** board, and mentored team members on core components of the tech stack, driving collaboration and on-time project delivery.

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML/CSS, PHP

Databases/Libraries/Frameworks: React, TanStack Query, Bootstrap, Mantine, Node.js, Express.js, Next.js, MySQL, MongoDB, Supabase, Jest

Developer Tools: Git, GitHub, VS Code, Vite, GitHub Actions, DigitalOcean, nginx, Apache, Vercel, Jira