Tarik Castro de Oliveira

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EDUCATION

University of South Florida   **Tampa, Florida**
*B.S. in Computer Science - **GPA:** 4.00 / 4.00*   *Expected Graduation, May 2028*

EXPERIENCE

BRASA Connect   **Tampa, Florida**
Tech Specialist & Full-Stack Developer   *Jul 2025 - present*
- Tech developer and coordinator for BRASA Connect, the **largest student-led conference** in Florida, bringing together over **350 participants, mentors,** and **speakers.**
- Design, develop, and maintain the official BRASA Connect conference **website** using **React.js**, **Node.js**, and **Firebase** for data storage - ensuring an efficient user experience for attendees and organizers.
- Build and deploy the BRASA Connect **mobile application** using **Flutter** and **Dart programming language**, integrating event schedules, mentorship application platform, and enhancing **NFC cards** functionality to connect participants - resulting in **+2000 connections**.
- Create a real-time **messaging system** integrated with **WhatsApp API** through **Node.js**, enabling team members to directly contact mentees, enhancing communication and logistical errors during the conference.

PROJECTS

Portfolio Web Application   **Tampa, Florida**
Program Developer   *Jul 2025*
- Designed and **developed a responsive** personal portfolio using **React.js** and **Tailwind CSS**, highlighting skills in **web development**, **UI/UX design**, and modern **frontend frameworks**.
- **Implemented** dynamic components to fit all screen sizes and **optimized** performance and styling workflows, demonstrating proficiency in **JavaScript**, **component architecture**, and **responsive design principles**.

Free Food Newsletter   **Tampa, Florida**
Program Developer   *Sept 2024*
- **Collaborated** with peers to develop a **Python script** to automatically **scrape** event data from the University of South Florida website and leveraged **AI** to identify events offering free food, **improving event accessibility** for students.
- Scraped data from **40+ events**, designing and implementing a subscription-based newsletter system that integrates **Selenium** for **web automation, AI-powered text analysis (OpenAI & Perplexity APIs),** and **.env-based API key** management, enhancing usability, scalability, and event discovery efficiency.

Viable Energy Blockchain Research   **Curitiba, Paraná, Brazil**
Blockchain Researcher & Developer   *May 2023 – Nov 2023*
- Researched and investigated the role of **Blockchain and P2P networks** in **energy microgrids**, authoring a **20+ page academic paper** that explores decentralized energy transfer, renewable energy integration, and smart contracts.
- Programmed a **functional blockchain prototype** using **TypeScript**, simulating peer-to-peer energy transactions, reducing reliance on centralized suppliers and resulting in an **improvement of 10-15%** in energy distribution efficiency.

Geography Trivia Web Application   **Curitiba, Paraná, Brazil**
Front-End & Back-End Developer   *May 2023 – Aug 2023*
- Designed and developed a geography quiz web application to engage **150+ children and students**, significantly helping them **improve geographical knowledge** and **critical thinking skills** through an interactive, game-based approach.
- Engineered and implemented the application using **Django (Python)** for the backend and **HTML/CSS** for the front end, leveraging **Django's ORM** for seamless **database integration** and **data management**.
- **Communicated technical insights** by authoring a **30+ page report**, providing an in-depth analysis of the application's purpose, user needs, and code structure, serving as a **foundational blueprint for future development, scalability.**

ACTIVITIES AND LEADERSHIP

University of South Florida   **Tampa, Florida**
*Brazilian Student Association **(Professional Development Analyst)**;*   *Jul 2025 - present*
*Association for Computer Machinery **(Project Member)**;*   *Jan 2025 – May 2025*

SKILLS & CERTIFICATIONS

Programming & Tools: Python, JavaScript, React.js, Typescript, Django, SQL, Tailwind CSS, HTML/CSS, Node.js, Flutter, Dart.
Languages: Portuguese (Native), English (Fluent), and Spanish (Beginner).