

Leticia Fernandes

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EDUCATION

University of Connecticut

Bachelor of Arts

Digital Media Design with Web Development concentration

Cumulative GPA: 3.23/4.0

Storrs, CT

May 2024

Naugatuck Valley Community College

Associates of Arts and Sciences

Waterbury, CT

May 2020

PROFESSIONAL SUMMARY

Motivated Full-Stack Software Developer with expertise in backend development, web technologies, and cloud deployment. Skilled in creating robust applications and eager to contribute to innovative projects in dynamic teams.

TECHNICAL SKILLS

Programming Languages: JavaScript (Node.js, Express, TypeScript), Python, PHP, Java, HTML/CSS

Frameworks/ Libraries: React, Vue/Nuxt, Next.js, Flask, TensorFlow

Tools/Platforms: Docker, Azure, Git, Auth0, MATLAB, WordPress, Omeka, Slack

Databases: MySQL, PostgreSQL

Other: WebAuthn API, CI/CD pipelines, PWA development, JSON

WORK EXPERIENCE

Student Web Developer/Designer

UConn Digital Experience Group

Storrs, CT

May 2023 – May 2024

- Designed and developed web-based interfaces for **scientific research datasets** across multiple UConn campuses, improving data accessibility and visualization for **over 1,000 users**.
- Utilized HTML, CSS, JavaScript, and PHP, alongside CMS platforms like WordPress (Aurora) and Omeka, to create functional, high-performance web pages that processed **gigabytes of data** daily.
- Collaborated closely in a team environment with researchers to gather requirements, ensuring the project met academic and scientific needs, leading to a **15% increase in site usability ratings**.

UNIVERSITY PROJECTS

Travel Mate - Reddit Travel page

April 2024 - May 2024

- Developed a fully-functioning web-based platform with Node.js, Express, and REST APIs, allowing **real-time updates** for thousands of travel-related posts.
- Implemented login/authentication using Auth0 and managed user data with PostgreSQL for personalized user experiences.
- Improved site performance through database optimization, reducing query execution times by **30%**, and facilitating a seamless user experience.

DeezerSpleeter - Audio Separator App

January 2024

- Developed a web application utilizing Python (Flask) for isolating vocals and instrumental tracks from audio files, processing **hundreds of audio tracks daily**.
- Integrated pre-trained models using TensorFlow to handle large datasets, resulting in **40% faster audio separation process** compared to previous models.
- Deployed and containerized via Docker on Azure with a CI/CD pipeline, reducing deployment time by **50%** and ensuring smooth updates and releases with minimal downtime.

WebAuthn Secrets- PWA file storage with authentication

December 2023

- Developed and deployed a **responsive Progressive Web App (PWA)** using Node.js and Express, allowing users to securely store files offline, boosting user engagement by **10%**.
- Integrated the WebAuthn API for passwordless authentication, enhancing both security and user convenience.
- Built on the Glitch platform and supported by a lightweight backend, ensuring **99.9% uptime** and efficient performance across various browsers and devices.