

Mariela Badillo

LinkedIn | Github | mlbadillo8@gmail.com | 863-245-4453

EDUCATION

Florida State University

Bachelor of Science in Computer Science, minor in Mathematics

May 2024

gpa 3.8

Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Advanced Programming with Java, Software Engineering I & II, Theory and Structure of Databases, Full Stack App Dev in C#, Human-Computer Interaction, Secure, Parallel, and Distributed Computing with Python

TECHNICAL SKILLS

Programming Languages: C++, Python, C, C#, Java, JavaScript, React, Node, HTML/CSS

Tools: Git, Github, Jira, MongoDB, Postman, VS / VSCode

WORK EXPERIENCE

Research and Development Engineer Intern

September 2023 - December 2023

Universal Creative

- Applied Python, ROS2 with C++, and JavaScript to develop, debug, and test software components ensuring robustness and functionality across multiple projects
- Engineered diverse applications such as facial recognition, facial detection, and identification scanning services, contributing solutions to enhance project functionalities
- Assisted in the development and testing phases of prototypes, facilitating the successful deployment of innovative technologies in Universal Destinations and Experiences

Software Development Engineer Intern

May 2023 - August 2023

Amazon Robotics

- Demonstrated proactive learning by mastering new technologies and tools including C#, Unity, and Git, enhancing personal skill set and adaptability within the development environment
- Collaborated with a team of developers to conceptualize, develop, and integrate new features into storage solutions, optimizing user experience and functionality, leading to the successful delivery of an end-to-end functional application meeting project requirements
- Engaged in Agile development methodologies by attending daily stand-up meetings and delivering regular status updates on assigned tasks and project advancement, fostering clear communication and alignment with the team

Undergraduate Teaching Assistant

August 2022 - April 2023

Florida State University

- Conducted weekly office hours to provide personalized assistance to students, addressing questions and clarifying concepts for the Introduction of C++ course, fostering a supportive learning environment
- Delivered constructive and detailed feedback on assignments, providing insights to help students understand their mistakes and make necessary improvements in their work, facilitating academic growth and improvement

Undergraduate Researcher

August 2022 - April 2023

FAMU-FSU College of Engineering Optimal Robotics Lab

- Applied differential equations to program a simulated bipedal robot in Matlab, demonstrating proficiency in mathematical modeling and programming skills
- Transformed a static CAD model of a robotic system by incorporating articulated joints and motion capabilities within SolidWorks, enhancing model's functionality

PROJECT EXPERIENCE

CleverCook

Prototype for Web Application using Express, React, Node

- Employed Express.js and Node.js for efficient backend development, ensuring reliable server-side functionality seamlessly integrated with the React frontend
- Designed and implemented intuitive user interfaces with React to prioritize user engagement and satisfaction, guiding users seamlessly through recipe discovery, preparation, and cooking processes.

Free Quizlet

Quizlet-inspired web app using Python Flask and MongoDB

- Utilized Python Flask for rapid back end API development, seamlessly integrating with MongoDB for scalable data storage and management.
- Architected and implemented CRUD operations and RBAC principles, ensuring robust data management and user access control.
- Collaborated with a team to deliver an intuitive user experience, featuring interactive study modes and progress tracking, enhancing learning outcomes