Laurence Mullen

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Education

Bachelor of Science in Computer Science   August 2018 – May 2022
University of Florida   Gainesville, FL
- Environmental Science Minor
- GPA: 3.77/4.0, Graduated Cum Laude

Professional Experience

Contract Full Stack Developer   September 2022 – Present
Worth Avenue Yachts   Fort Lauderdale, FL
- Developed a CRM system designed to optimize and assist yacht charter brokerage operations
- Proposed, designed, and implemented a full-stack web application using React.js, Flask, HTML/CSS, and SQL
- Implemented features to help manage client inquiries, optimize daily workflow, and assist with data analysis
- Doubled charter broker productivity and improved charter client retention by 40%

Undergraduate Research Assistant   January 2022 – May 2022
UF Biomechanics, Robotics, and Imaging in Orthopedics Lab   Gainesville, FL
- Aided development of a program for Automated Model-Image Registration of Joint Kinematics using ML
- Wrote performant code in C++ and Python; utilized Qt, VTK, OpenCV, cuDNN, and libtorch toolkits
- Replaced an inefficient exponential-time algorithm using linear algebra concepts, reducing runtime by 98.5%
- Led sprints for a team of six and created high-quality UML diagrams, documentation, and presentations

Junior Web Developer   April 2021 – Present
Albion International Inc.   Fort Lauderdale, FL
- Developed and maintained websites for clients in the yachting industry using HTML, CSS, and JavaScript
- Communicated frequently with clients to ensure that requirements and features were designed to satisfaction
- Resolved security breach and implemented automated security tasks, saving the company over $5000/month

Technical Skills

Languages: Python, C++, C, Java, JavaScript, HTML/CSS, SQL, Julia, R, Rust, MatLab, Bash
Frameworks & Libraries: React.js, Express.js, Flask, Qt, NumPy, SciPy, Scikit-learn
Tools: Git, Node.js, MongoDB, Docker, Ansible, Linux, WSL, Nginx, Postman, CMake, Visual Studio

Projects

Homelab   2018 – Present
DevOps Experimentation Server - Ansible, Docker, Linux, Bash
- Used Ansible to automatically set up environments and Docker to deploy 30+ containerized applications
- Created reverse-proxied network using Nginx, SSL/DNS with Cloudflare, and remotely linked storage with Gsuite
- Host websites, game servers, media, and more while ensuring optimal uptime and performance for 15 users

AlgoRythm
Audio Visualizer - Python
- Created a customizable real-time audio visualizer that dynamically changes based on the song and cover art
- Built using the PyGame GUI framework and PyAudio, NumPy, and SciPy for performant data processing
- Implemented Windows media and Spotify API integration, as well as various GUI elements
- Improved performance by 20% and enhanced code readability using polymorphic OOP concepts

Activist Agenda
Social Media Site for Political Movements - React, Node.js, and MongoDB
- Developed a web application on the MERN stack in support of political activism and organized movements
- Responsible for frontend components, integrating email and geocoding APIs, and Heroku deployment
- Utilized Agile development methodology to increase team productivity while maximizing client satisfaction