JOSHMAR MORALES

Fullstack Software Engineer

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WORK EXPERIENCE

Software Engineer — **JCM Global**, Las Vegas, Nevada

C | C++ | Python — Aug 2023 – Aug 2024

- Developed real-time, multithreaded applications and BSP drivers for a network adapter using C, enabling seamless device communication and reliable connectivity with a web server.
- Built RESTful APIs in C using gSOAP and XML, enabling efficient delivery of field product data to the back-end server for enhanced accessibility.
- Implemented new features in EGM gameplay using Python, including a promotional campaign that increased player engagement and revenue by 5%.
- Expanded networking capabilities for gaming systems by integrating DHCP in the firmware, enhancing connectivity and system performance.
- Resolved critical bugs on the network adapter device, minimizing operational disruptions, reducing downtimes by 10%, and improving the casino's overall user experience.

PROJECTS

Jhuv Nutrition — **Full Stack App**

React | Node.js | TypeScript | Express | Tailwind | MongoDB | MVC — nutri-store-app-v2

- Built a full-stack e-commerce platform in TypeScript, leveraging React for a dynamic frontend and Node.js for a secure backend.
- Integrated MongoDB for efficient data management, enabling seamless handling of products, users, and orders.
- Crafted a responsive and intuitive user interface using React and Tailwind CSS, ensuring a smooth and engaging shopping experience.

Personal Portfolio — **Frontend App**

HTML | CSS | JavaScript | SASS — cv-24

- Created a professional portfolio with vanilla JavaScript and SCSS, featuring a clean, responsive design that showcases key projects with an intuitive user interface.

Weather Forecast — **Frontend App**

HTML | CSS | JavaScript | SASS | MVC — weather-app

- Developed a weather app using vanilla JavaScript and the MVC architecture to fetch and display real-time weather data for cities worldwide, with a responsive, user-friendly interface styled using SCSS.

Bluelock Drowning Detector — **Machine Learning Model**

Python | TensorFlow | OpenCV | Jupyter | Anaconda — bluelock-drowning-detector

- Developed and deployed a TensorFlow and OpenCV-based drowning detection model on the NVIDIA Jetson Nano, achieving optimized performance and enhancing pool safety through real-time monitoring.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, C/C++, HTML, CSS, SQL
- **Frontend:** React, Next.js, Tailwind, Bootstrap, SASS/SCSS, CSS Modules
- **Backend:** : Node.js, Express
- **Database:** : MongoDB, PostgreSQL
- **Tools & Technologies:** Vite, Parcel, Babel, Webpack, Postman, Wireshark, Xcode Simulator
- **Deployment Platforms:** Netlify, Railway, Vercel
- **Version Control:** Git, Subversion, Mercurial

EDUCATION

Bachelor's degree in Computer Engineering — **University of Nevada, Las Vegas**

3.65 GPA — Aug 2019 - May 2023

- Relevant Coursework included Data Structures and Algorithms, Advanced Computer Science, Digital Forensics, Data Mining