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Stephen Martinez

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Education

Long Beach, CA **California State University Long Beach**

- B.S. in Computer Science with a focus Software Development.

Experience

Research Assistant **California State University Long Beach** **April 2023 – Current**

- Implemented state machines for robotic applications, optimizing control logic and operational efficiency.
- Utilized C++ for high-performance software development, ensuring efficient and reliable code for real-time applications.
- Engineered a full-stack mobile application using React Native, Node.js, Express, and MongoDB to control robotic systems, monitor their status, and perform diagnostic checks.
- Created real-time robot tracking and visualization using WebSockets, Google Maps API, and D3.js for dynamic data visualization.
- Developed RESTful APIs and GraphQL endpoints to facilitate communication between the mobile app and robotic systems.
- Used Docker for containerization to ensure consistent and scalable development and deployment environments.
- Worked with Jenkins for continuous integration and continuous deployment to automate the build, test, and deployment processes.
- Used OpenCV for advanced machine learning and computer vision tasks, enabling sophisticated object recognition and autonomous decision-making.
- Designed a comprehensive dashboard using Grafana and InfluxDB for monitoring robotic metrics, health status, and sensor data.

Full Stack Engineer, Intern **Pantsuit Professionals** **July 2023 – October 2023**

- Developed dynamic front-end interfaces using HTML5, JavaScript, jQuery, and Tailwind CSS to enhance user experience and ensure compatibility across devices.
- Used Java Spring Boot and AngularJS to build backend functionalities, such as RESTful APIs for data exchange.
- Implemented agile methodologies, setting up JIRA Kanban boards to visualize and prioritize tasks, and utilizing GitHub sprints for iterative development cycles.
- Optimized data storage and retrieval processes within Amazon Web Services data lakes, employing AWS Lambda functions for automated data processing and ensuring scalability and performance.

Credentials

- **Oracle Cloud Data Management 2023 Certified Foundations Associate**
- **Rust Specialization**
- **IBM Full Stack Software Developer**
- **IBM Back-End Development Professional**
- **IBM Front-End Developer Professional**
- **IBM Machine Learning Professional**

Technology

- **Programming Languages:** C++, Java, JavaScript, Python, Rust
- **Frameworks and Libraries:** React Native, Node.js, Express, AngularJS, Java Spring Boot, D3.js
- **Tools and Platforms:** Docker, Jenkins, AWS, Google Maps API, WebSockets, OpenCV, Grafana, InfluxDB
- **Methodologies:** Agile, CI/CD, RESTful API, GraphQL