Marcel Salazar

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204 Fallow Buck CT, Conroe, Texas, 77384

SOFTWARE ENGINEER

I'm an aspiring Software Engineer with a strong academic foundation in computer science, eager to apply my expertise in creating innovative software solutions. I'm highly motivated to learn from experienced professionals in the field, leveraging their insights to enhance my skills further. This dynamic and evolving industry captivates me, and I'm ready to contribute my technical abilities to impactful projects while gaining valuable hands-on experience.

COURSES TAKEN:

Data Structures and Algorithms: Linked list, Binary Trees, Queues, Hashing, Topological Sort.
Special Topics in Programming: recent topics and trends in computing, different approaches to problem solving.
Data Base and Management System: design, development, securities, and implementation of relational databases
Programming Fundamentals I & II: Computational thinking to develop programs using algorithms for OOP

EDUCATION

Sam Houston State University
Bachelor - in progress. Expected Graduation by Fall 2024

Lone Star College
Associates in Science. Graduated in Spring 2022

The Woodlands College Park High School
Graduated in Spring 2020

SKILLS

Programming Languages/Software: Java, Python, C++, ADA, JavaScript, HTML, CSS, SQL, GitHub, Scratch
Problem Solving, Time Management, Adaptability, Attention to detail, Fast Learner.
English Speaker (Fluent), Spanish Speaker (Fluent), Portuguese Speaker (Intermediate).

EXPERIENCE

Robotics Instructure Coordinator **May 2023 - Present**

- Embedding coding fundamentals into kids' lives. Assisting them in learning, designing, and implementing coding schemas using software (**Python**) and hardware. Actively guiding and mentoring them through the process, ensuring a comprehensive understanding of coding principles.
- Rapidly debugging kids' software. Ensuring their success in the course and enhancing their proficiency in debugging. Providing quick and effective troubleshooting support, equipping them with valuable debugging skills.
- Explaining software statements in **Scratch** to enable children to start programming at a young age. Facilitating their early engagement and comprehension of programming concepts. Delivering clear and accessible explanations of software statements, laying the foundation for their programming journey.

College Software Developing Experience **Spring 2021 - Fall 2022**

- Achieved a 17% reduction in overflow time by optimizing our food chain system's insertion and retrieval algorithm. This accomplishment involved implementing targeted software improvements, precisely measuring the resulting speed increase, and utilizing the Software **Ada** platform to ensure tangible efficiency gains.
- Truss Structure Analysis Program (C++): Developed a **C++** program to detect and organize tension and compression forces in truss structures. The program efficiently identifies and arranges force points in descending order using a pointer, enhancing structural analysis.