Arturo Villalobos Jr

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SKILLS AND CERTIFICATIONS

- Java, Python 3+, Javascript, HTML/CSS, Rstats, C++.
- MSSQL/SQL, MongoDB, Redis, NoSQL, AWS/Azure, Docker, Ansible.
- Platforms and Tools: Git Version Control, VScode, Xcode, Unreal Engine 4, Blender
- AWS Certified Cloud Practitioner Certification | Issued June 2020- Expires June 2023
- Languages: English-Native, Spanish-Native, Portuguese-Beginner

WORK EXPERIENCE

Data Infrastructure Engineer, Standard Data Inc (Remote)　　　　　　　　　　　　　**Aug 2023 - Present**
- Engineered and implemented micro-services for ML-enhanced maintenance calculations in military and industrial applications, seamlessly integrating diverse environments and technologies to optimize performance and scalability.
- Lead the CI/CD initiatives for comprehensive project deployment, orchestrating front-end and back-end integration using Azure Pipelines, Ansible, and Docker to ensure seamless and efficient delivery.
- Partnered with project stakeholders to define requirements, conduct demonstrations, and deploy live versions of projects to Air Force bases nationwide, ensuring alignment with strategic objectives and operational readiness.

Web Developer, Blyss Dating (Remote)　　　　　　　　　　　　　　　　　　　　　**Mar 2023 - July 2023**
- Develop and deploy a maintainable, and user-friendly business website leveraging modern technologies such as React/Next.js, Tailwind CSS, and AWS. This includes designing intuitive user interfaces, ensuring responsive performance, and implementing best practices.
- Integrate a headless content management system (CMS) using GraphQL to empower the Blyss newsroom and blog capabilities. This integration enables team members to seamlessly add and manage content, ensuring a flexible and efficient content delivery system that enhances the overall workflow.

Software Developer, Classic Canvas Company, San Antonio, TX　　　　　　　　　　　**Feb 2023 - June 2023**
- Develop internal automation tools and a web interface using React, Python, and AWS to boost social media presence and activity. These tools will streamline marketing efforts, allowing for increased engagement and reach without the need for additional marketing resources.
- Create and maintain comprehensive documentation detailing the tools used, specific system design decisions, and other relevant information. This documentation will serve as a valuable resource for current and future team members, ensuring transparency, consistency, and ease of knowledge transfer within the organization.

Cloud Solutions Architect Internship, University Lands, Houston, TX　　　　　　　　**May 2020 - Aug 2020**
- Develop and deploy server-less Lambda functions in Python on the AWS cloud to automate the ETL (Extract, Transform, Load) processes for data from Drilling and Completion reports in the Permian Basin. This solution enhances data processing efficiency, scalability, and accuracy, streamlining the integration of critical oil well data into the system.
- Design and implement architecture utilized by chemical and mechanical engineers to construct type curves and facilitate cost analysis of current wells. This architecture supports advanced data analysis and decision-making processes, enhancing the efficiency and accuracy of engineering evaluations and financial assessments.

Peer Teacher, Texas A&M College of Engineering, College Station, TX　　　　　　　**Aug 2020 - Dec 2021**
- Tutor undergraduate and graduate students enrolled in Computer Science and Engineering courses, providing guidance and support both remotely and in-person. This includes helping students understand complex concepts, improve their problem-solving skills, and succeed academically through personalized instruction and mentorship.
- Taught courses including Data Structures and Algorithms, Introduction to Computing, Computer Organization, Discrete Mathematics, and Linear Algebra under the supervision of a professor. This involved preparing lectures, grading assignments, and offering individualized support to enhance students' understanding and performance in these subjects.

EDUCATION

Texas A&M University　　　　　　　　　　　　　　　　　　　　　　　　　　**College Station, TX**

Bachelor of Arts Computer Science　　　　　　　　　　　　　　　　　　　　　　**Graduated Dec 2022**
Minor in Statistics

PROJECTS

Juego - Lead Developer - React Application　　　　　　　　　　　　　　　　　　　**Nov - Dec 2021**
- Led a team of developers to launch a social network platform that connected users with similar interests with respect to video games and other media using a PostgreSQL database, React framework, and Node.JS backend.
- Using an agile development methodology I set targets, tracked progress, and delivered our working product.

Olympic Index - Co-Developer - Design Project　　　　　　　　　　　　　　　　　**Sep - Dec 2021**
- Developed a responsive, design focused, data visualization project with React.js, D3.js, and Python to explore historical olympic data with a variety of charts, each highlighting different aspects of the data to reveal underlying and interesting patterns.