

Arturo Villalobos Jr

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SKILLS AND CERTIFICATIONS

- Java, Python 3+, C#, Javascript, HTML/CSS, Php, Rstats, C++.
- MSSQL/SQL, MongoDB, Redis, AWS/Azure, Docker, Ansible.
- Platforms and Tools: Teams, Slack, Jira, Azure DevOps, VScode, Xcode, JetBrains Products
- Languages: English-Native, Spanish-Native, Portuguese-Beginner

EDUCATION

Texas A&M University

Bachelor of Arts Computer Science
Minor in Statistics

College Station, TX

Graduated Dec 2022

WORK EXPERIENCE

Senior Software Engineer, Standard Data, Inc. Houston, TX..... **Aug 2023 - Present**

- Reduced the time soldiers and airmen spent preparing readiness reports by 40% in airbases across the United States through developing micro-services with Java Spring Boot, TypeScript, MongoDB, and Microsoft SQL Server. These services provided machine learning driven maintenance calculations that power a suite of tools automating critical operational tasks.
- Led CI/CD initiatives with Azure Pipelines, Ansible, and Docker to automate and integrate front-end and back-end deployments, accelerating prototype delivery. This speed enabled more detailed RFI responses to GSA schedule notices and facilitated faster client feedback.
- Partnered with project stakeholders to define requirements, conduct demonstrations, and deploy live versions of projects to various customers nationwide, ensuring alignment with strategic objectives and operational readiness.
- Developed and maintained a data synchronization tool using C#, Ansible, and Docker to securely ingest hundreds of gigabytes of sensitive customer data. This tool ensured up-to-date application data for live demonstrations and drove greater customer adoption.
- Adapted quickly to organizational needs by learning Java to support a major architectural shift. Partnered with two backend engineers to transition from a micro-services stack (Python, Redis, MongoDB, Java) to a monolithic design, delivering a beta in three months and live-user testing in six.
- Engineered PHP micro-services and migrated backend storage from MongoDB to Elastic search, boosting time-series query performance and retaining full data resolution. The redesign reduced infrastructure costs by \$50,000 per year.

Software Developer, Classic Canvas Company, San Antonio, TX..... **Feb 2023 - June 2023**

- Increased the efficiency of current customer outreach efforts by automating email marketing and creating a tool that can schedule and automatically post social media content.
- Deployed and configured a self-hosted accounting, invoicing, and expenses platform using Docker and PostgreSQL, with custom features such as company-specific branding, data views, and reporting. The solution eliminated QuickBooks subscriptions, saving over \$4,000 annually.

Cloud Solutions Architect Internship, University Lands, Houston, TX..... **May 2020 - Aug 2020**

- Automated ETL workflows for Drilling and Completion reports in the Permian Basin by developing server-less Python Lambda functions on AWS. The solution streamlined integration of critical oil well data and saved engineers significant time previously spent on manual data entry.
- Collaborated with mechanical and petroleum engineers to design Python notebook templates that streamlined type curve creation and well cost analysis, improving data-driven decision-making and accelerating engineering and financial evaluations.

Peer Teacher, Texas A&M College of Engineering, College Station, TX..... **Aug 2020 - Dec 2021**

- Provided individualized support for over 70 undergraduate and graduate students through weekly 3-hour long office hours conducted both in-person and online.
- Supported instruction across five courses (Data Structures & Algorithms, Introduction to Computing, Computer Organization, Discrete Mathematics, and Linear Algebra) by reviewing materials and grading assignments, ensuring consistency and up-to-date academic resources.

PROJECTS

Creative Developer, Art Club, Houston, TX..... **Dec 2024 - Present**

- Created immersive real-time 3D installations with TouchDesigner, Blender, and mathematical modeling, enhancing weekly live shows and permanent exhibits experienced by over 300 patrons per day.
- Maintain and repair over dozen high-performance servers powering real-time visualizations and gallery-wide installations, ensuring reliability and minimal downtime.