

Cruzanio Villarreal

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Work Experience

L3Harris Technologies - Secret Security Clearance (Exp: 2030)

Sr Associate Software Engineer

July 2023-Present

- Led a team of 4 developers in the development and maintenance of a high-traffic React-based webpage, applying best practices to achieve a 40% improvement in load times and a more dynamic user experience.
- Utilized Single SPA and Helidon WebServer to integrate micro frontends into a unified web application, improving modularity, maintainability, and backend performance.
- Applied mobile-first principles using React, JavaScript, and Bootstrap for fluid, responsive UI experiences.
- Spearheaded interactive mapping capabilities with Leaflet.js, including custom KML layers and GeoJSON overlays for detailed data visualizations.
- Designed and implemented RESTful APIs in Java for seamless frontend-backend data exchange.
- Managed development using Agile methodologies with Atlassian Jira and Confluence.

Actalent

Software Engineer; Contract

July 2022-July 2023

- Contributed to the design and implementation of aircraft telecommunication systems with MBEs (Micro-Backend) services in Java.
- Developed custom React components within MFEs (Micro-Frontend) services for real-time data display via RESTful APIs and Websockets.
- Utilized Gradle and Gitlab CI/CD pipelines for automated build, testing, and deployment of software projects.
- Managed data protocols with a custom Message Bus system and enhanced SQL execution and data flows through Java multithreading.

Accenture

Software Engineer Associate

Nov 2021 – June 2022

- Conducted thorough Root Cause Analysis and performed JUnit testing for Java and Java Server Pages, addressing and resolving software issues through client feedback and incident reporting in Jira.
- Actively participated in daily SCRUM meetings and adhered to Agile development practices to drive project progress.

Junior DevOps Engineer

Sep 2021 - Nov 2021

- Developed and maintained CI/CD pipelines using Docker, Docker Compose, and Jenkins, ensuring streamlined application delivery and orchestration.
- Managed code across various SCMs, including Gerrit and Gitlab, and contributed to the installation of vendor-based products on Linux and Windows servers to explore automation opportunities.
- Monitored application and system activity logs to identify and address environment issues, coordinating with cross-functional teams for environment readiness.

Junior Application Developer

Mar 2021 - Sep 2021

- Developed and tested Python REST APIs for backend data transfer, and designed data solutions using MongoDB with MongoEngine.
- Successfully migrated a web application framework from Radzen to Angular Material with TypeScript, improving functionality and user experience.
- Gained experience in Infrastructure as Code (IaC) using Terraform and Ansible, contributing to efficient infrastructure management.

Military Experience

U.S. Air Force

Munitions Stockpile Management Supervisor

2019-2020

- Manager of ten inventory teams responsible for the accountability of six million munitions worth \$935 million across four stock accounts.
- Asset accountability tracked and maintained through SQL entries.

Missile Integrity Technician

2018-2019

- Member of a small six-man team responsible for the security, maintenance, and disposition of high-value munition assets.
- Software upkeep included the application and logging of IBITs, debugging per Air Force Technical Orders, and SQL database entries.
- Maintenance included consistent physical upkeep of hardware and asset housing material.

Conventional Maintenance Crew Chief

2017-2018

- Supervised and instructed small 3-5-man teams in proper execution of munitions operations such as shipping, inspections, and functional testing.
- Performed consistent IBITs per MIL-STDs and recorded results utilizing SQL entries.
- Awarded Air Force Achievement Medal after pioneering new processes in asset repair saving over \$750K Air Force wide.

Munitions Storage Crew Member

2015-2017

- Leadership selected for the responsibility of combining multiple software and hardware accountability systems, ultimately achieving seamless integration.
- Transitioned JSP web-based accountability system to newer Sharepoint powered accountability system, leveraging SQL database for record and item tracking.

- Utilized computer-based accountability databases: Combat Ammunition System, Theater Integrated Combat Munitions System.

Education

Texas A&M University Commerce

2023-Present

Bachelor of Science in Computer Science

Codeup

2020

Certificate of Completion

- A fully immersive, project-based, and intensive 22-week full-stack Java career accelerator that provides students with 670+ hours of expert instruction in software development.

Community College of the Air Force

2020

Associates in Applied Science

Frontline Leadership School

2019

Certificate of Completion, 280+ hours

- Intensive five-week course focusing on leadership abilities, effective communication, and interpersonal skills in a professional setting.

Practice and Principles of Instruction Course

2018

Professional Military Education, 150+ hours

- Three-week course over proper practice for instruction that covered lesson plan design, audience study, and effective delivery techniques.