FRANCISCO RUELAS

Software Engineer

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SUMMARY

A highly skilled and detail-oriented **Software Engineering Leader and DevOps Specialist** with 7+ years of enterprise experience, focused on architecting and maintaining scalable **CI/CD pipelines**, containerization, and infrastructure automation. Extensive hands-on experience with modern DevOps practices, including **Infrastructure as Code (IaC)** using Ansible, deployment across **Kubernetes/MicroK8s** and **Docker**, and leveraging database change management with **LiquidBase**. Proven ability to lead and mentor teams, translate business requirements into robust technical solutions, and significantly improve deployment quality and system resilience in both on-premise and cloud environments.

DevOps Engineering | CI/CD Architecture | Infrastructure as Code (IaC) | Container Orchestration (Kubernetes/Docker) | Team Leadership | On-Premise/Cloud System Administration

Scalability | Agile Project Management | Automation | Database Operations | Data Analytics | Solution Architecture

TECHNICAL SKILLS

Languages: Visual Basic, C++, C#, Object Pascal, PHP 7, Bash, Java, Javascript, Python
SW Development Frameworks: .Net, Laravel, Flask, jQuery, NextJS, Spring Boot, OpenCV
IDEs: MS VS Code with Gemini Code Assist, MS Visual Studio, IntelliJ IDEA, dBeaver, pgAdmin, SoapUI, Postman
Databases: MS SQL Server, MySQL, MariaDB, Informix 9, Oracle 9i, PostgreSQL
Cloud&CICD Tools: GiHub&BitBucket (Source Control), **Ansible (IaC)**, TeamCity (App. Deployment), **Sonatype Nexus** (artifact repo), **LiquidBase, Docker, Kubernetes (MicroK8s), Kafka** (msg bus)
Cloud/Platform Experience: AWS (S3, Redshift, Aurora), **Elasticsearch/Kibana** (ELK Stack), **VMware, VirtualBox, LXD, Powershell**
Operating Systems: Windows and Linux Platform.
MES: GE Vernova suite of products, FlexFlow, Datasweep

EXPERIENCE

GE Appliances, a Haier Company, **Louisville, KY**
Senior System Analyst and Administrator, 2/2024-Present

In this role I support the AP5 Bottom Refrigerator factory from data collection to data visualization via the GE Vernova suite of products as well as other solutions like Brilliant Factory (in-house developed) or SSRS. Based on requirements from the Factory Operations team, as Scrum Master I ensure the team is working on what is a priority for the business. I'm actively involved in the design, development and implementation of solutions that improve visibility and productivity while reducing waste on the factory floor.

- Lead overall strategy for the FIS Team and IT systems for operations
- Provide detailed scoping (functional specs, technical specs, costs, schedules, etc) for FIS projects and lead them through completion
- Provide detailed documentation upon project completion to ensure systems are supportable
- Provide L1 and L2 level support for existing factory information systems
- Interface with FIS team and central IT teams to ensure standard practices are adhered to and drive compliance
- Gained hands on experience in Windows, VSCode with Gemini Code Assist, Jira, Confluence, dBeaver, Powershell, NextJS, SVN, Github, AWS Aurora, MS SQL Server, MS SSRS

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JABIL, **Austin, TX**
Test Engineer IV, StackTest, 4/2019-10/2023

Led the team using the Agile methodology in the exploration of new technologies with the goal of making the solution architecture more resilient and its deployment and rollback seamless. During this project I implemented DevOps pipeline and SDLC best practices improving the quality of our deployments by automatically detecting errors and automating the deployments. We achieved the goal of having the POC in 4 months.

- Led the migration to a modern On-Premise CI/CD architecture using an Agile methodology, improving deployment quality and achieving a Proof-of-Concept in 4 months.
- Designed and implemented a robust, fully On-Premise CI/CD pipeline for multi-site application deployment, drastically improving deployment reliability and reducing errors.
- Introduced Infrastructure as Code (IaC) using Ansible to set up application infrastructure, ensuring configuration consistency and automated application update deployment.
- Automated deployments targeting specific sites using a toolchain of BitBucket, TeamCity, Docker, Sonatype Nexus, and Kubernetes (MicroK8s), with LiquidBase for database version control.
- Developed and supported the Analytics Data Pipeline, including setting up application infrastructure using VMware and deploying Python ETL updates that collected data from heterogeneous sources.
- Configured Elasticsearch/Kibana to visualize and report analytics, enhancing data-driven decision-making.
- Gained extensive hands-on experience with core On-Premise DevOps technologies, including TeamCity, Docker, Sonatype Nexus, LiquidBase.

FLEX, **Austin, TX**
Systems Software Engineer, 4/2016-4/2019

Developed the interfaces between flexBench (test framework) and FlexFlow (MES) and between flexBench and hardware that enabled features, such as LED visual auto test and device auto-discovery (based on SNTP). Defined and developed back-end features that enabled flexBench software (framework to test hardware solutions) to deploy test plans against targeted UUTs and had UUTs pass back test results using few Kb of bandwidth, enabling scalability.
- Developed solutions based on computer vision like board visual inspections, packing slip OCR.
- Developed loader for Electronic Shelf Label (ESL).
- Gained hand-on experience in Windows, Linux, BaaN (ERP), FlexFlow (MES), Python, C#, Laravel (PHP), Javascript, MySQL, MS SQL Server, Ansible, Bash, OpenCV, Tesseract, Dmtx, and ZBar.

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FLEX MANUFACTURING, **Austin, TX**
Senior System Analyst, Business Systems Analyst, 2007-2016

Analyzed business processes, functions, and procedures to determine the most effective way to use flex systems (ERP and MES) to meet organizational needs and underlying processes using BTS, BTO or CTO. Prepared test plans and coordinated and performed systems testing (QA) to deploy new systems and features. Coordinated implementation of software systems, including conversion of data between systems, and collaborated with application support personnel to resolve system problems (L3 support). Documented system specifications and noted any changes.

- Established systems specifications and objectives, based on business requirements and cost effectiveness, and providing recommendations to management personnel.
- Involved in systems development and design, including software programming, DB design, and reports.
- Served as liaison between software development staff, management, and system end-users to determine requirements and obtain sign-off.
- Provided training and technical support to system end-users.
- Involved in all phases of the software development life cycle for MES solutions.
- Provided MES support and troubleshooting.
- Communicated and gathered requirements at a high level with customers, PMs, and senior management. Translated requirements to technical specification for development.
- Oversaw project procurement.
- Reported project status to customers, PMs, and senior management.
- Gained hands-on experience in Windows, VB6, Visual Basic .NET, MS SQL, MS Office, Loftware, Baan (ERP), FlexFlow (MES) and custom Interfaces.

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ADDITIONAL EXPERIENCE

FLEXTRONICS MANUFACTURING, **Zapopan, JAL, MX**, **Enterprise-wide Programmer Analyst**, 2004-2007. Maintained MES developed in VB .NET and other various systems developed in different development platforms. Supported and developed customizations in legacy MES (Datasweep) and various satellite systems that gather data from shop floor systems or ERP (BaaN) and consolidate it to generate reports, mainly through web pages. Automated different kinds of manual processes or semi-automated processes (parsers) and to create interfaces to exchange data between shop floor system and the ERP or external systems on the customer side (EDI). Involved in analysis and development tasks.

ITESO UNIVERSITY, Mexico, **Software Engineer**, 1998-2004. Maintained various legacy systems developed with Clipper. Served as project leader of multiple development projects at university, including Admission System, Enrollment System, and Academic Performance Evaluation System, which were developed with Delphi (Object Pascal) and Oracle for Windows platform. Oversaw overall change control, scope change control, and schedule control for multiple projects. Involved in system design, analysis, and implementation. Gained hands-on experience in Windows 95, NT 3.51 & 4.0, Delphi 5, Informix 9, Oracle 8i, System Architect, Borland C ver. 3.1, Ms Visual Source Safe, and Ms Project 2000.

TELEINFORMATICA AVANZADA DE MEXICO, QUEST SYSTEMS DE MEXICO, Mexico, **Software Development Project Manager**, 1996-1998. Managed all software and firmware developments. Evaluated team performance. Led project to document all software and firmware in company and led project to reduce time to market products. Development of work methods as well as project management policies. Involved in system design and implementation of every project in the company. Involved in every proposal to clients, giving support to sales in technical issues. Provided Q/A and technical support for software and firmware products developed by the company.

EDUCATION

ITESO UNIVERSITY, Mexico
Master of Applied Computer Science, Specialized in I.S. Management

ITESO UNIVERSITY, Mexico
BS, Computer Systems Engineering

PROFESSIONAL DEVELOPMENT

Laravel, PHP framework
Linux Server Virtualization, PluralSight, 2018
Accelerated Introduction to C++, PluralSight, 2016
Python Fundamentals, Plural Sight, 2016
Java Script
HTML5
Programming in Delphi 5.0
BaaN 4 Development.