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OBJECTIVE

My objective as a software engineer is to empower businesses to achieve their goals by leveraging their knowledge and data on the most advanced software technologies regarding organization size and resources.

SUMMARY

- Over 20 years of experience as software engineer developing software using a wide variety of languages in windows and Linux platforms
- Over 15 years working as a liaison between customers and software developers located in different regions around the world on a manufacturing environment for an enterprise with worldwide presence.
- Demonstrated capability to land general ideas in tangible products with little or no supervision
- Out of the box thinker

HANDS-ON EXPERIENCE IN:

Languages: Visual Basic, C++, C#, Object Pascal, PHP 7, Python 2/3, Bash, Java

SW Development Frameworks: .Net, Laravel, Flask, jQuery, Node Js, Spring Boot, OpenCV

IDEs: MS VS Code, MS Visual Studio, IntelliJ IDEA, dBeaver, pgAdmin, SoapUI, Postman

Databases: MS SQL Server, MySQL, MariaDB, Informix 9, Oracle 9i, PostgreSQL, LiquidBase

CICD Tools: Ansible (IaC), BitBucket (Source Control), TeamCity (App. Deployment), Sonatype Nexus (repo management)

Containers&Orchestration: Docker, Kubernetes (MicroK8s), Kafka (msg bus between micro-services)

Analytics Engine: Elasticsearch/Kibana (parto of the ELK Stack)

Virtualization Technologies: VMware, VirtualBox, LXD

Operating Systems: Windows and Linux Platform.

EDUCATION

Master In Applied Computer Science specialized in I.S. Management.

ITESO University, Mexico

Generation 2001

B.S. in Computer Systems Engineering.

ITESO University, Mexico

Generation 1995



EXPERIENCE

Test Engineer IV

April '19 to Present

Company: Jabil

Description: As a Test engineer IV in the StackTest team, I was responsible for on-boarding new customers on our test framework not only by supporting the tool but also by reinforcing best practices on systems testing while improving the test framework for scalability, performance, usability and maintainability. In this role I lead the team in the exploration of new (to the team) technologies with the goal of making the solution architecture more resilient, introduce a CI/CD pipeline that covers new deployments (IaC) and automate delivery targeting specific sites. Also, in this position I was supporting the infrastructure of a data pipeline that collected data from heterogeneous sources to present it in dashboards using Elasticsearch/Kibana.

Hands-on experience: Windows, Linux, VSCode, MariaDB, PostgreSQL, Ansible, Bash, Python, Java, Elasticsearch/Kibana, Docker, MicroK8s, TeamCity, Nexus, Kafka, VMware, LXD, LiquidBase, dBeaver, Nginx

Systems Software Engineer

April '16 to April '19

Company: flex

Description: In this role I was responsible for the definition and development of the back-end features that enables the flexBench software (framework to test hardware solutions) to deploy test plans against targeted UUTs and to have the UUTs pass back the test results using just a few Kb of bandwidth enabling scalability. I'm also responsible for the interfaces between flexBench and the MES and between flexBench and the hardware that enables features like the LED visual auto test and device auto-discovery (based on SNTP). I also developed other solutions based on computer vision like visual auto inspections and label/form data gathering using OpenCV, Tesseract, Dmtx and ZBar.

Finally, I had the chance to develop a loader for an Electronic Shelf Label (ESL).

Hands-on experience: VSCode, VS2017, MS SQL Server 2008R2, MySQL, MS Office, FlexFlow (MES), Baan V (ERP), Ansible, PHP, JavaScript (jQuery), Bash, Python, C#, OpenCV, Tesseract, Dmtx, ZBar

Sr. System Analyst/Business Systems Analyst

December'07 to April '16

Company: Flextronics Manufacturing

Description: In this role I was responsible for analyzing business processes, functions, and procedures to determine the most effective way to use flex systems (ERP&MES) to meet the needs of the organization and the underlying process (BTS, BTO or CTO). I was also responsible for establishing systems specifications and objectives, based on business requirements and cost effectiveness, and providing recommendations to management personnel.

I was involved in systems development and design, including software programming and DB design and reports.

In order to deploy a new system or feature(s) I prepared test plans and coordinated and performed systems testing (QA). I was also responsible for the coordination of the implementation of software systems, including conversion of data between systems, and work with application support personnel to resolve system problems (a.k.a. L3 support).

As part of my duties, I documented system specifications and noted any change I made. I've also worked as liaison between software development staff, management, and system end-users to determine requirements and obtain sign-off.

Last but not least, I provided training and technical support to system end-users.

Responsibilities:

- ♦ Involved in all phases of the software development life cycle for MES solutions.
- ♦ MES support and troubleshooting.



- ◆ Been able to communicate and gather requirements at a high level with customers, PMs, and Sr. Management as well as translate those requirements to a technical specification for development.
- ◆ Project procurement
- ◆ Report project(s) status to customers, PMs and Sr. Management.

Hands-on experience: Windows, VB6, Visual Basic .NET, MS SQL, MS Office, Loftware, Baan (ERP), FlexFlow (MES) and Custom Interfaces.

Enterprise wide programmer analyst
Company: Flextronics Manufacturing

March'04 to December'07

Description: Responsible for the maintenance of the MES developed in VB .NET and other various systems developed in different development platforms. I also supported and developed customizations in a legacy MES (Datasweep) and various satellite systems that gather data from the shop floor systems or the ERP (BaaN) and consolidate it to generate reports, mainly through web pages. Another part of the maintenance job is to automate different kinds of manual processes or semi-automated processes (parsers) and to create interfaces to exchange data between the shop floor system and the ERP (middleware/glueware) or external systems on the customer side (EDI).

Responsibilities:

- ◆ Involved in analysis and development tasks.

Hands-on experience: Windows, Datasweep, ASP .NET, Visual Basic .NET, SQL Navigator 4, JavaScript, MS SQL, Baan (ERP), FlexFlow (MES).

Software Engineer,
Company: I.T.E.S.O. University, Mexico

August'98 to March'04

Description: Responsible for the maintenance of various legacy systems developed with clipper. I was also project leader of multiple development projects at the university: the admission system, the inscriptions system and the academic performance evaluation system. These systems were developed with Delphi and Oracle for the Windows platform.

Responsibilities:

- ◆ On multiple projects, I am directly responsible (among other processes) for the Overall change control, Scope change control, and Schedule control.
- ◆ Involved in the System Design, Analysis, and Implementation.

Hands-on experience: Windows 95, NT 3.51 & 4.0, Delphi 5, Informix 9, Oracle 8i, System Architect, Borland C ver. 3.1, Ms Visual Source Safe, Ms Project 2000.

Software development project manager

Company: Teleinformática Avanzada de México/Quest Systems de México

August'96 to August'98

Description: Was directly responsible for the management of all the software and firmware developments, as well as the evaluation performance of the people in my charge. Lead a project to document all the software and firmware in the company and another one to reduce the time to market the same products.

Responsibilities:

- ◆ Development of a work method 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.
- ◆ Directly responsible for Q/A and technical support for the software and firmware products developed in the company.

Hands-on experience: Windows 95, NT 3.51 & 4.0, Rational Rose, VB4, MapInfo, Franklin C, Ms Team Manager, Ms Visual Source Safe, Ms Project, Rigi



TRAINING

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

