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## About me

I am a software engineer with experience in the development, supervision and implementation of computer systems. I consider myself a person committed to my activities with a high sense of responsibility performing exceptional work.

I have experience designing, programming and managing robust OnCloud, OnPremise or hybrid software architectures oriented to microservices with cloud providers **AWS, Azure, GCP, Digital Ocean, Cloudflare** and **Terraform** as Infrastructure as code.

I am an expert full stack programmer in the **.NET C#, Java, JavaScript, Python, PHP** and **Visual Basic** languages and also in **SQL Server, Sybase, Oracle, MySQL, Cassandra, MongoDB, DynamoDB** databases as **BackEnd** and in the **FrontEnd Angular, NodeJS, Blazor, HTML JQuery Bootstrap, React and WebAssembly** in my experience and implemented various types of desktop computing systems, Web Forms, Web APIs and native mobile applications, I also have experience in provisioning network topologies with **Windows Server** and **Linux**.

Photo	Name	Email	Phone	ID
 41 years old CDMX	Ulises Sandria Vázquez	<a href="mailto:contacto@ulisessandria.com">contacto@ulisessandria.com</a>	<a href="tel:5536476820">5536476820</a>	4472593

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## Experiencie

Project	Date	Assignee	Task
Engen	1-24 / 10-24	Architecture, Mobile and Web Development ,TechLead	<p><b><u>Activities</u></b></p> <ul style="list-style-type: none"> <li>• Source code analysis and approvals with DevOps</li> <li>• Operation support</li> <li>• Web services provisioning</li> <li>• Project leadership</li> <li>• Design of proposals for improvement of operation</li> <li>• Support to developers</li> <li>• Monitoring of product development</li> <li>• Tracking Dev, QA, PRO and Staging deployments</li> <li>• Java Springboot microservice development</li> <li>• Ticket automation on tour</li> <li>• Vault implementation</li> <li>• Architecture design for Data Science and Business Intelligence</li> <li>• Analysis of systems developed in aws services</li> <li>• Terraform AWS Development</li> <li>• Python lambda development</li> <li>• DDD serverless architecture design for BigData</li> <li>• Implementation of AWS SQS and MSK</li> <li>• EvenBridge implementation</li> <li>• Implementation of SonarQube BackEnd and FrontEnd</li> <li>• I use AWS and GCP services to bring information with AppSync and GCP BigQuery</li> <li>• Implementation of data push integrations</li> <li>• Automated testing</li> </ul> <p><b><u>Technologies</u></b></p> <ul style="list-style-type: none"> <li>• Java 15 to 18</li> <li>• SonarQube</li> <li>• Jira</li> <li>• Python</li> <li>• NodeJs</li> <li>• AWS SQS, Lambda, EventBridge, RDS, Dynamo, FarGate, EKS, MSK, RabbitMQ, CloudWatch API Destinations, AppSync, ECS Task, APISGateWay, Cognito, Others</li> <li>• AWS CodeCommit</li> <li>• AWS Kinesis</li> <li>• AWS Amplify</li> <li>• AWS Stepfunctions</li> <li>• AWS ECR</li> <li>• Docker</li> <li>• JavaScript</li> </ul> <p><b><u>Achievements</u></b></p> <ul style="list-style-type: none"> <li>• Improved code quality.</li> <li>• Transmission of knowledge to the development team.</li> <li>• Application automation in Jira.</li> <li>• Reduction of response times of microservices handling large volumes of data.</li> <li>• Customer satisfaction.</li> </ul>

- Technology documentation and business processes.
- Implementation of security mechanisms, resource policies, authorizations, cogito users, labeling policy
- Implementation of WAF and TLSm Mutuo to exposed services.
- Metrics
- Logs
- Observability
- XRay implementation (AWS xRay)

Kinich 10-23 Architecture,  
Software / 1-24 Mobile and Web  
Development  
,TechLead

**Activities:**

- Architecture design for a mobile application on Android and iOS that can be used by users to have its geolocation in real time, as well as sending notifications to trusted contacts in case of general abuse towards women, which also integrates a directory and a chat with a knowledge base towards **CHATGPT (IA)** to serve as a psychologist and suicide prevention.
- Design of physical and logical architecture on Azure and FireBase.
- Real time database design.
- Development of a multiplatform application with NET MAUI C # for sale to the private sector
- Publishing in the Apple and Android store
- Infrastructure provisioning for DevOps with Azure Cloud.
- Kubernetes Cluster Supply.
- Terraform script programming for service provisioning in the Azure Cloud (Service Bus, Azure Functions, SignalR, KeyVault, Storage, API Management Dockerization of services.
- Web API programming.NET gRPC C # for handling user information. Programming of methods for managing Firebase storage.
- Method programming for Firebase RealTime DataBase.
- Programming of authentication methods in Firebase.
- Programming methods for using push notifications.
- API connector programming for chatGPT use.
- Lambda function programming.
- Connector programming for Azure Service Bus.
- Programming of functions for handling Messaging (Queues and Topics).
- Observability Implementation with Graphana, Jaegger and Istio.
- MVVM pattern implementation.
- Use of GCP CLI for use of push notifications

**Technologies:**

- Azure Services
- Firebase
- C # 7 NET MAUI
- SQL Server
- gRPC
- Docker
- ServiceBus
- Graphana
- ChatGPT

**Achievements:**

- User satisfaction.
- Reduction of femicides in the country.

- Improvement of the quality of life of women.
- Integration of Artificial Intelligence for the first time in web microservices.

Nexta      11-21      Architecture,  
/ 10-      Development,  
23      DevOps,TechLead

**Activities**

- Participation in HEB and Cklass projects and internal clients.
- Backend architecture design for HEB Monterrey commercial chain electronic commerce system. Backend and frontend architecture design for Ticket Digital HEB. Backend and frontend architecture design for Cklass
- Physical and logical architecture design for the development of the new online sales system of the HEB commercial chain, the operation was designed between services to connect the sales and availability of products from the 38 stores that operate in the city of monterrey, improving the experience of users when buying online from the application or web portal.
- Physical and logical architecture design for him sent tickets digitally when paying in boxes, the user can receive a ticket on his cell phone link to your purchase ticket if you wish.
- Physical and logical architecture design for the development of the online sales system of the company cklass, a reengineering of the sales, web, mobile and administration channels was generated. Coordination of equipment and assignment of tasks in Agile Kanban methodology. Activities.
- Business operation analysis for the development of base technological solutions, coordination of work teams, provision of environments of programming, migration of legacy services to new technologies and innovation implementing new software design patterns for the high availability.
- Implementation of DevOps environment for Cklass project.
- Base code programming for Android mobile application.
- BackEnd base code programming Java microservices and gRPC.
- FrontEnd Angular base code programming.
- Terraform base code programming for IaC.
- SQL database design and standardization.
- Amplify implementation for development.
- Base code programming.
- Configuration of Windows servers for application deployment.NET C #
- Implementation of SQS and PIXES Models (inventory photos for synchronization with Tibco)

**Technologies:**

- Android Studio Kotlin
- Java 11 GRPC Spring Boot REST API
- SQL Server
- GitLab / DevOps Pipelines with ArgoCD DataDog
- Sybase
- Azure (Functions, AD, ServiceBus)
- AWS (Cognito, MSK, EventBridge, API Gateway.EC2, ECS, EKS, AppSync, S3, Lambda, ECR, RabbitMQ)
- NodeJS

- Python
- Typescript
- JavaScript
- Services Bus / Pub Sub
- Step Functions
- Elastic Search
- Graphana, Kibana
- React
- Unix, Linux, Windows
- Docker and Kubernetes

**Achievements:**

- High availability of HEB online products.
- High performance of backend services.
- Ecological impact when receiving a purchase ticket via digital.
- High performance and IOS / Android reactive applications, Web.
- Implementation of good practices and innovation.
- Integration of high performance microservices with gRPC.
- Customer satisfaction.
- Implementation DevOps project Cklass.

BestDay 11-19 Architecture,  
/ 10- Development,  
21 DevOps,TechLead

**Activities**

- Maintenance and migration of quote backend services and booking in the hotel industry, design, development and implementation of new services to provide asynchronous connectivity between B2C, B2B, B2B2C and affiliate lines, development of services for connectivity with channels managers through Open Travel.
- Planning and design of logical architecture for the development of connecting micro services for the enrollment of hotel contracts to the different lines of business that consume them.
- Specific improvements to services to improve their response times and availability, as well as open trace and monitoring.
- Creation and assignment of user stories to work team at KanBan DevOps
- Migration of HBSI, RateTigger and Gateway interfaces to NET Core.
- Architecture Design for Web API migration of NET Core Quote Hotels.
- Architecture Design for API of Tarifaria Hotels (Python)
- Architecture Design for OTA Push Disney Connector.
- Architecture Design for Connector OTA Push SynXis, Saber.
- Architecture Design for OTA Push DerbySoft Connector.
- Architecture Design for OTA Push HBSI Connector.
- Development of Booking connectors and cancellation of reservations.
- Development of backend functionality and database for push connectors.
- Development of resistant architectures for HTTP connectors with Retryment and timeout policies.
- Architecture Development for Bussines Intelligence and Revenue Quote Service, strategies.
- Architecture Improvement for BestDay interface.
- Performance improvement to third-party PULL quote interfaces (Restel, Tourico, Get a Room, IDISHO, GTA)
- Architecture Improvement for Valkirya interface.

- Improvement and maintenance of product Apis.
- Maintenance to availability viewers.
- Production Installation of Proxys Nginx, Docker, k8s.
- Pipeline development.
- Provision of development environments and QA.
- Integration of instrumentation metrics
- Dashboards design.
- SQL script development, functions, stored procedures, triggers.
- Development of MySQL MSSQL migration synchronizers.
- Migration of services from Azure to Google Cloud Platform.
- Testware design and execution for distributed load tests.
- Creation of SSL Let's Encrypt certificates for secure connectivity between interfaces.
- ElasticSearch and kibana integration for connectivity and monitoring between applications.
- Daily KanBan board execution.
- Creation of Epics.
- Code Review

**Technologies:**

- ASP.NET Frameworks VB C #
- ASP.NET Core C # 3 MVC
- MySQL
- MSSQL
- Azure
- GCP
- NodeJS
- Python
- TypeScript
- JavaScript
- Service Bus / Pub Sub
- OTA Connectors
- Functions
- Elastic Search
- Graphana, Kibana
- Angle
- XML, JSon, gRPC, MsgPack
- Docker K8s
- Linux Ubuntu Server

**Achievements:**

- Reduction of consumption of hardware resources in Web APIs.
- Reduction of service consumption Azure OnCloud and reduction of costs in payment of SQL Server licenses.
- Production of API Connectors
- Implementation of good practices.

Proyecto 03-18 Architecture,  
Kidzania / 11- Development,  
19 DevOps,TechLead

**Activities**

- Analysis, Planning and Design of MenuBoard and Queuing Board modules to design and project restaurant menus on HDMI LCD screens using a raspberry Pi3 and a traditional browser and that has a web interface where you can design, configure a food menu and manage access to the airport through the console. [See Video of final product](#)
- Architecture Design for Viewer in Raspbian.
- Architecture Design for Viewer in Windows IoT

- Development of menuboard menu interface design module.
- Development of menuboard Canvas work area.
- Development and integration of menuboard product slider.
- Development and integration of images in menuboard.
- Development of user interface.
- Development of content interpreter.
- Development of dynamic functionality and rotation intervals of advertising containers.
- Integration of GPIO LED indicators in raspberry.
- Development of functionality to operate in offline mode.
- Development of backend services for storage and configuration.
- Queue List module development.
- Current shift module development.
- Previous access list development.
- Provisioning connectivity with Azure IoT Hub
- Connectivity with Service Bus
- Development of functions, stored procedures, types
- Development of models, views, and controllers.

### **Technologies**

- ASP.NET Frameworks C# MVC
- MSSQL
- Azure
- NodeJS
- Python
- TypeScript
- JavaScript
- Service Bus
- Functions
- Angular
- JSON
- Razor
- HTML5 CSS
- Bootstrap
- WebPack
- VueJS
- UWP
- Web API

### **Achievements**

- Menus put into production in raspberry.
- Correct operation with cloud integration.
- Best practices.
- Completion of modules left to build.
- Complete satisfaction with UAT version

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## Skills

### Branch

### Technology

#### Programming Languages

- C# NET 1 a 9
- Java 1 a 18
- JavaScript
- Python
- VB 5,6 .NET
- TypeScript
- PHP
- UML
- Rust only POC tests
- XML, XAML

#### Mobile Development

- .NET MAUI
- Android Studio
- Flutter
- Xamarin

#### Releases

- Publish on AppStore
- Publish on Google Play Store

#### Architecture

- Hexagonal
- Serverless
- Microservicios
- SOA

#### Methodologies and techniques

- D.D.D
- T.D.D
- B.D.D

#### Server App

- Apache Server
- Apache TomCat
- WildFly, JBoss
- IIS
- Nginx Reverse Proxy
- Kestrel
- GlassFish
- Oracle WebLogic



Patterns	<ul style="list-style-type: none"> <li>• Dependency Injection e IoC</li> <li>• MVC</li> <li>• MVVM</li> <li>• Circuit Braker</li> <li>• Fan in Fan Out (Durable Functions)</li> <li>• MVP</li> <li>• Factory</li> <li>• Iterator</li> <li>• Proxy</li> <li>• Builder</li> <li>• Adapter</li> <li>• Chain of Responsibility</li> <li>• Bridge</li> </ul>
Principies	<ul style="list-style-type: none"> <li>• SOLID</li> <li>• YAGNI</li> <li>• DRY</li> <li>• KISS</li> </ul>
Models & methodologies	<ul style="list-style-type: none"> <li>• Scrum Agile</li> <li>• CMMI 3</li> <li>• Six Sigma</li> </ul>
FrameWorks	<ul style="list-style-type: none"> <li>• Entity Framework</li> <li>• Dapper Bot</li> <li>• NET Framework</li> <li>• NET Blazor</li> <li>• ExpressJS</li> <li>• Django</li> <li>• SpringBoot</li> <li>• Apache Maven</li> </ul>
Repositories	<ul style="list-style-type: none"> <li>• Bit Bucket</li> <li>• GitHub</li> <li>• GitLab</li> <li>• Team Services</li> <li>• SVN Tortoise</li> <li>• Microsoft Source Safe</li> <li>• GitHub</li> </ul>
CI/CD	<ul style="list-style-type: none"> <li>• AppCenter</li> <li>• Bitrise</li> <li>• AWS CodeBuild, CodePipeline, CodeBuild</li> <li>• Jenkins</li> <li>• DataDog Setup</li> <li>• CodeBuild</li> <li>• ArgoCD GitOps</li> <li>• MAMBU</li> <li>• Azure DevOps</li> </ul>
FrontEnd	<ul style="list-style-type: none"> <li>• jQuery</li> <li>• Razor</li> <li>• Blazor (Web Assembly)</li> <li>• Angular</li> <li>• Bootstrap</li> <li>• ReactJs</li> <li>• NextJs</li> </ul>
Tools	<ul style="list-style-type: none"> <li>• Jira</li> <li>• Terraform</li> </ul>

	<ul style="list-style-type: none"> <li>• Istio</li> <li>• Graphana</li> <li>• Kibana</li> <li>• Docker</li> <li>• CMS (Umbraco, WordPress)</li> <li>• Elastic Search</li> <li>• Crystal Reports</li> <li>• Reporting Services</li> <li>• Integration Services</li> <li>• Enterprise architect</li> <li>• Post Man</li> <li>• PowerShell</li> </ul>
DataBases	<ul style="list-style-type: none"> <li>• SQL Server</li> <li>• SyBase</li> <li>• MySql</li> <li>• MongoDB</li> <li>• Oracle</li> <li>• SQL Lite</li> </ul>
Operating Systems	<ul style="list-style-type: none"> <li>• Windows 11</li> <li>• Windows IoT</li> <li>• Solaris 11,</li> <li>• Windows Server Core</li> <li>• Linux Ubuntu Server, CentOs</li> <li>• OS X</li> </ul>
Tests	<ul style="list-style-type: none"> <li>• JMeter Low Test;</li> <li>• Accunetix</li> <li>• MSTest</li> <li>• Xunit</li> <li>• SmokeTest</li> <li>• AppCenter</li> <li>• SonarQube</li> </ul>
Buses	<ul style="list-style-type: none"> <li>• RabbitMQ</li> <li>• Kafka Zookeeper</li> <li>• PubSub</li> <li>• Azure Service Bus</li> </ul>
Reportes	<ul style="list-style-type: none"> <li>• PowerBI</li> <li>• Cristal Reports</li> <li>• Extracción de datos con Informática y ETL´s</li> </ul>
Security	<ul style="list-style-type: none"> <li>• KeyCloack</li> <li>• Auth0</li> <li>• Identity Server</li> <li>• Cognito</li> <li>• Active Directory</li> <li>• CloudFlare</li> <li>• HashiCorp Vault</li> <li>• OWASP BestPractices</li> </ul>
Windows Azure	<ul style="list-style-type: none"> <li>• Service Bus</li> <li>• Functions</li> <li>• Storage</li> <li>• API Management</li> <li>• SQL Azure</li> <li>• Virtual Machines</li> <li>• Cosmos DB</li> </ul>

- App Service
- AKS
- Service Fabric

#### Amazon Web Services

- SQL RDS
- EventBridge
- Step Functions
- API Gateway
- EKS
- ECS
- EC2
- App Runner
- VPC
- ECR
- CodeBuild
- CodeDeploy
- CloudFront
- CloudWatch
- Lambda
- Fargate
- S3
- SQS
- Kinesis

#### Google Cloud Platform

- Cloud Run
- Big Query
- Cloud Storage
- Compute Engine
- GKE
- Cloud SQL
- Cloud CDN
- Cloud Functions
- Apigee
- Vision AI
- Video AI

#### Digital Ocean

- VPS Services
- Container Registry
- IoT
- Security
- Web Hosting
- Blockchain
- Web Hosting

#### Firebase

- Links
- Realtime Database
- Push Notifications
- Storage
- Messaging
- Authentication
- Realtime Analytics

#### IA

- Chat GPT
- Flow GPT
- Tensor Flow
- Video AI (Vertex AI)

#### Block Chains - Cryptocurrency

- Cluster NiceHash
- FileCoin
- Coinbase
- Ethereum

- BitCoin
- PolkaDot

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## Certs

### Certs

- [VSphere 7](#)
- Tanzu Kubernetes Mission Control
- Cloud Native

### Diplomas

- [Azure DevOps](#)
- Azure Infraestructure
- [Linux Essentials](#)
- [Xamarin](#)
- [Scrum](#)
- AWS Services