

COMPUTER SYSTEMS ENGINEER

PERSONAL DATA

Elier Lopez Gonzalez.
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DOB: 04/01/1985
Marital Status: Married



EDUCATION

2011-2013 Master in Psychology by IESDI
2003-2007 Computer Systems Engineer by ITHUA
2000-2003 Bachelor's degree in Business Management by COBACH

OTHER COURSES AND TRAININGS

2023 Building Microservices By Conservices
2020 Full stack Bronze certification by HEXAWARE
2020 Machine learning basics by Udemy
2020 Azure by Udemy
2019 Entity Framework in Depth by Udemy
2019 Advance Xamarin Developer MasterClass by Udemy
2019 Sql Server and MySql by Udemy
2018 React and Redux by Udemy
2015 Constructivist Approach and Flipped Classroom by IESDI
2015 Transactional Analysis of Eric Berne
2013 Personality Styles of Robert Rohm By TIEMPO DEVELOPMENT
2012 360 Degree Leadership of JOSH MAXWELL By TIEMPO DEVELOPMENT
2011 Agile Methodologies In Software Development By TIEMPO DEVELOPMENT

CORE DEVELOPMENT SKILLS

- Apollo Server & GraphQL on Serverless.
- AWS Lambda Functions; Scheduled Functions, Event Raised Functions, Triggered Functions, S3 Buckets, DynamoDB, SparQL & Neptune.
- Azure, Web API, Web Services, Cloud Blobs, Azure Notifications Hubs, SignalR (WebSockets)
- Design patterns: Repository, Generic Repository, Factory/Generic Factory, UoW, Facade, Dependency Injection, Interface segregation, Good practices in **SOLID** principles.
- Azure AD authentication, Asp.Net identity and OWIN Auth, Simple Auth, JWT and Bearer strategy.
- MVC, MVVM.
- C #, VB, XAML, Linq, React and Redux, CSS, Bootstrap,, Javascript, XML, ASP, Razor, JQuery,.
- Mobile: Xamarin.Forms, Prism
- SQL Stored Procedures, Scalar and Table Functions.
- EF Core with Code First strategy, EF 6 with DB first or Code First

strategies.

- TFS, SVN, Git, Good practices in Azure devops branching and merging.
- Scrum Methodology, Agil, Good communication skills.

EXPERIENCE WITH CLIENTS FROM USA

- **Fullstack Labs: July 2021 - Now**

As Sr. SW Engineer I have created solutions that involve the newest techs from Node and .Net stacks such as React, TS, JS, SLS, GraphQL Apollo Servers, other AWS services as lambda functions, dynamo documents, Neptune DBs + SparkQL, S3 buckets, S3 events, WebApi .Net 6, etc, membership services providers as Okta, Keycloak and integrated solutions as event-hooks etc.

- Conservice: Sep 2022. Created a solution for downloading a massive number of utility bills from multiple admin email accounts via gmail APIs for saving time and money to the accounting department. Used techs: React, React.Context for state management Typescript. Some other achievements:
 - Integrated with Keycloak with web api for filtering access based on roles and access policies.
 - Migrated some legacy web api services from old net .46 framework to .Net 6.
 - Migrated legacy system for tracking utility user accounts (bills) from AspNet to React application.
- Carrier. Ago 2021. Created a solution integrated by multiple microservices that manages and monitors thousands of devices connected online that traces smoke and fire detections in Carrier clients buildings. Involved techs; Node JS, Typescript, Graphql, Dynamo, Neptune & Sparql, S3, AWS IoT. Some achievements:
 - Published lambda functions with Apollo server & GraphQL
 - Published lambda functions handled by S3 object events for reading and managing XML and JSON files
 - Published lambda functions that manages Okta user via GQL schemas
 - Published an integrated solution syncing Dynamo & Okta Data via Okta events hooks
- FSL. July 2021. Created a Database Application for managing candidate profiles, skills, history and key information that could be useful for the human resources department. The application provides an easy way to search candidates that make fit for any specific project based on skills or experience. The application saves time and money that was previously invested in finding candidates for open positions. Techs involved; Node JS, React, Graphql, PostgreSQL, Prisma.

- **HEXAWARE / Ernst & Young: Aug 2018 - July 2021**

I have participated in several projects for Ernst & Young using net core technologies, node js tools and azure services. Some of the project and my contributions in them are listed below:

- Factiva News. May 2021. Python application.
 - Develop Factiva modules & queries and stream query.
 - Develop azure resources module.
 - Integrate modules.
 - Setup environment & deployments.
- RiskAssessment. Jan 2021. Net Core Web API, EF Core with Code First. React + React-Redux Web App. My Participation as tech Dev member:
 - Build react hook components

- Support and develop Web API
 - Review code inputs from team members
- SAH. July 2020. Net Core Web API, EF Core with Code First. React + React-Context Web App, Storybook, SCSS. My Participation as tech lead:
 - Lead & support team members in daily tech activities
 - Review code inputs from team members
 - Design the web API template design
 - Integration with external dependencies. Service to Service communication
- Sampling. Oct 2019. Net Core Web API, EF Core with Code First. React + React-Context Web App, Storybook, SCSS. My Participation as Sr. Dev:
 - Design the Web API template design
 - Integration with external service dependencies.
 - Creation of react components
- EY Core Services. Oct 2018. Net core Web API and Job library. I participated in creating the template/architecture for both solutions. A Migration Job: Is a class library that migrates big bulks of data from a legacy DB. Core API: Is a net core web API that exposes information from an Azure SQL DB. Designed in with UoW, Generic Repository and three layer design; web, services and Repos. Some tools I implemented: Auto mapper (for avoiding to expose Domain classes out of services layer), Unit testing with Custom Mocks, Azure AD authentication, Swagger (Swashbuckle), Serilog with Sql.
- EY DCL. Nov 2018. Net Core Web API and React-Redux App. My participations are listed below:
 - Backend: Implementing custom authentication header for special validations on specific web methods.
 - Backend: Fixes and refactors of the services layer.
 - Backend: Fixes and refactors in the Azure AD authentication.
 - Frontend: Implementation of react components.
- EY Aria. Feb 2019. Net core Web API and React-Redux App. My participations are listed below:
 - Backend: Create the Web API Template/Architecture. UoW, Generic Repository and four layers design. Automapper, Serilog with Sql, Azure AD Auth, Swagger, Unit Testing with Custom Mocks and Dynamic mocks with Moq, EF Core with Code First Strategy.
 - Backend: Implementation of Custom authorization header for decorating web methods.
 - Frontend: Implementation of React components and containers (hooks)
 - Frontend: Implementation of date formatters (using moment.js)
 - Support: Coaching and technically supporting peers.
- EY IC. Jun 2019. Net Core Web API, EF Code First, Sql and React-Redux App and very strict SOLID principles and high MS Coding standard implementations. My participations are listed below:
 - React App bug fixing
 - Creation of Mechanism for queuing remove old data process thru overriding Context Save Changes process.
 - Creation of Mechanism for raising remove process of old data in Azure functions project.
- EY Canvas Automation. Aug 2019. Net Core Azure Functions, EF Code First, Sql, Azure Key Vault Integration and WPF Application. My Participation in listed below:
 - Implementation of Keyvault provider. I was in charge of moving all

sensitive data in existing project files to KeyVault and pulling them by a Custom provider that reads all these secrets and compose a Configuration object that then is injected as dependency to functions.

- Creation of KV manager app. I created a WPF Application to be consumed by Devops team. This application Creates, Updates, Removes secrets from Azure Key Vault resources used in different environments; Dev, QA, UAT, PROD. The app implements MVVM pattern with strict layer separation, Custom Delegate Commands and HttpClient Custom Service for http requests and Lazy Loading strategy.
- EY Sampling. Oct 2019. Net Core Web API, EF Core with Code First and React-Redux Web App.

- **KETSER: 2017 - Now**

I work as a freelancer in a project that involves a mobile application in Xamarin Forms, React web site and the related backend API hosted in azure.

- A Mobile App in xamarin forms implementing Prism framework for MVVM and Xamarin Forms. The backend app is a Web API/Site (self host API) hosted in azure. My participations are listed below:
 - XF. Develop one of the mobile apps from scratch and all of its features. Some of the implemented features: Custom renders for specific controls, Resources Localization (multi language), centralized dictionary resources, Static converters, Bound Triggers, Dependency Injection (dependencies are injected in ViewModels not instanced there), partial renders implementations, push notifications with Azure Notification Hub integration. I am involved in the complete development cycle, I also manage/create/update the Certificates, identifiers and provisioning profiles for the app in apple developer portal for iOS version.
 - Backend: Designing the template/architecture for the Web API. It implements Asp .Net identity for authorization and simple authorization (since one of the apps does not require user authentication). DB is an Azure Sql DB. Implements some design patterns; UoW, Generic Repository. Implements some solid principles; Dependency Injection, Interface segregation, and layers with limited responsibility. Layers; Web Controllers, Managers (services), Model (EF 6 and UoW in this layer), Repositories (Generic ones). Implements Razor views for front end (currently being migrated to a React app)

- **TIEMPO DEVELOPMENT: Sep 2010 - Aug 2018**

I have participated in many projects for clients in the USA using .Net technologies. Some of the projects I participated in:

- **FirstCash.SOS. At September 2010.** SQL Server, Implemented membership provider JQuery, EntityFramework, Linq, custom reports, etc.
- **CoupDoc. At March 2011.** MVC.Net web project, implemented SQL server, jquery clientside field validations, EntityFramework, Linq, massive emailing, etc.
- **EWS.QuotingForm. At June 2011.** Asp.net web project page, implemented Javascript and a CRM customization.
- **Microchip.DevicesPageUpdate. At August 2011.** Asp.Net web project, participated making Javascript, UI and backend changes at C# code.
- **Perfspot.SummitDegrees. At September 2011.** Asp.net web project. I Participated implementing a jquery plugin for rss and UI customizations.
- **Tech One.FaxOCR. At September 2011.** Windows service and web service (asmx) projects.

- Implemented, C#, Regex. I participated creating a custom decoder for OCR files.
- o **CMS. At November 2011.** MVC.Net project. Implemented SQL server, IOC (inversion of code), LinqToSql, JQuery, a Windows service. I participated for three years implementing many backend changes, JQuery controls, Devexpress controls integration, .net framework upgrade to 4.5.1, changes to the SQL schema and other collaborations.
- o **FurstPerson. At September 2014.** Several Asp.Net web Sites. Implemented Sql Server, Javascript, VB.Net, Windows service, Telerik controls. I participated implementing some customizations, changes to the Win service and JQuery integrations.
- o **This Roof. At July 2015.** Mobile App for IO's and Android. Xamarin Studio 2015. C#, Rest, Json, Xml, XAML, Google Maps API Javascript implementation.
- o **AdParo LLC Bee2Gether.** May 2016. Mobile App for IO's and Android, Its social network app. Xamarin Studio, Xamarin Forms framework, MVVM pattern. Amazon Web services; Dynamo DB, Lambda functions.
- o **Goals Tracker: May 2017.** Based on an MVC.Net project and a worker process raised by windows a task. It tracks the technical growth of employees gathering multiple assessment responses and personal professional milestones each year quarter. Participated implementing multiple reports using Google charts, multiple Sql stored procedures, Sql scalar and table functions, implementing Bootstrap and JQuery for redesigning the front end.
- o **nThrive CoRCIS. Nov 2017.** A Medical Insurance Tracker System. ASP.Net site, Web API and multiple SQL Databases. I Participated implementing multiple features using JQuery, Javascript, Html, Sql Stored Procedures and Sql functions, Entity Framework, Linq, Unit Testing and UI unit testing with Jasmine.

OTHER EXPERIENCES

- **UNIVERSITY TEACHER: August - December 2015**

I taught Programming fundamentals subject in TecMilenio at Hermosillo Sonora. Activities: Teaching students theoretical concepts programming and practices, evaluating evidence, elaborating and evaluating exams, coaching students around questions or supporting them for meeting the desired proper milestones.

- **PUNTO DE VENTA: June - August 2010**

Developed **PDV SYSTEM** for **LA FUENTE** at Huatabampo Son. PVD was based on windows forms, C# .Net and Sql Server 2005. Access functions and Crystal Reports.

- **FUTURO INTELIGENTE: Sep 2008 to July 2010**

Software Developer. I participated developing several projects implementing fingerprint identification devices and RFID for Access Control Management, most of them implements TCP/IP and/or serial communication and was based on .Net windows services, Windows Forms with C#.Net and VB.Net.

- **REMANUFACTURAS ELECTRICAS AUTOMOTRICES: June - August 2008.**

Software Developer and Technical support. I developed **FACTURACION SYSTEM** based on windows forms and VB 6.0 and Access DB. functions (SQL Trigger simulations) and Crystal Reports.

- **CONALEP: June - July 2018**

Intern: I participated installing and configuring a Linux Internet server (Squid 2.7) with the filter DansGuardian (CONALEP facility: Álvaro Obregón Salido # 14 in Huatabampo Sonora).

- **COMISION FEDERAL DE ELECTRICIDAD: January - December 2007**

Intern: I Developed the software **SICOHEEP** based on windows forms and VB 6.0 and Sql Server 2005. Sql SP, Triggers and Crystal Reports. (CFE facility: Huatabampo Sonora agency).