Edgar **Hernandez**

SOFTWARE DEVELOPMENT ENGINEER

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"Real stupidity beats artificial intelligence every time."

Summary

Current Senior Software Development Engineer at Huawei Ireland Research Center developing tools for Huawei Cloud SREs. 12+ years of experience in Frontend, Backend and Cloud development using a broad set of technologies and programming languages. Interested in growing as a leader, solving challenging problems and learning new technologies and tools if the need arises.

Work Experience

Huawei Ireland Research Center
Dublin, Ireland

SENIOR SOFTWARE DEVELOPMENT ENGINEER — *Nov. 2021 - Present*

- Research and Development of tools to help Huawei's Cloud SREs to perform their daily jobs and improve the platform availability.
- Currently participating in the development of a proof of concept of a distributed throttling system.

Amazon - AWS Lambda
Dublin, Ireland

SOFTWARE DEVELOPMENT ENGINEER — *Jun. 2020 - Oct. 2021*

- Member of the team responsible of the languages and runtimes available in the AWS Lambda service.
- Actively participate in the development of new functionality and automation by doing design and code reviews, coding in a multitude of programming languages, and participating in the operations and oncall rotations.
- Designed and implemented the initial version of the Runtime Interface Clients for two of the supported runtimes (NodeJS and Python) and released them as part of the Lambda Container Interface Support.
- Led the migration of the Java8 Lambda runtime to the Corretto JVM. This involved preparing mechanisms to allow customers to test the new runtime; designing and developing tools to migrate in batches customers workloads while monitoring their health and executing targeted rollbacks when necessary; and working directly with leadership and the product team on the migration strategy and public communication.
- Led the team efforts required to enable the support of the ARM architecture in the AWS Lambda runtimes.

Amazon - AWS L7 Loadbalancing
Dublin, Ireland

SOFTWARE DEVELOPMENT ENGINEER — *Oct. 2017 - Jun. 2020*

- Member of the team responsible for the administrative part of the software stack used to manage the internal load balancers (Control Plane) used globally by the whole company.
- Automated the region builds of our services removing almost all the manual operations and reducing the time taken to build our services into a new region from 2 weeks to 2 days.
- Designed and developed the integration testing tools and End to End tests for the Load balancing Control plane web tools.
- Launched the Web UI of the new Control Plane for internal Load balancing.

United Nations Office in Vienna - gText
Vienna, Austria

SOFTWARE ENGINEER — *May. 2015 - Sep. 2017*

- Developing tools to help in the translation of documents between the 6 official UN languages with suggestions from different sources including Statistical Machine Translation, Terminology databases, and similar text found on historical translated documents.
- Optimised a series of Entity Framework queries and implemented a smart caching of the results reducing database hits and memory footprint in the translation suggestions services achieving up to a 70% decrease on memory allocation in one them.
- Lead the design, development and successful release of a new service called the Document Web Search Tool.
- Improved the library that handles the import/export of text allowing the application to correctly import the text from Word files and export the text translation without losing the document format.
- Implemented a new version of the document symbol recognition library used to detect appearances of UN document symbols in text, improving the detection and correct generation of links to the documents.

United Nations Office in Vienna - gMeets
Vienna, Austria

SOFTWARE ENGINEER — *Jan. 2013 - May. 2015*

- Participated in the maintenance and development of new features for two web applications used to manage the services required for the smooth functioning of UN conferences all over the globe including the UN General Assembly.
- Developed a tool in F# to deploy multiple report projects to multiple SQL Server Reporting Services servers reducing the deployment time and allowing CI and automatic deployment.

Knowtion
Cd. de Mexico, Mexico

SOFTWARE ENGINEER — *Aug. 2012 - Nov. 2012*

- I worked for a few months with an incredible team that introduced me to functional programming developing new features for a healthcare application that handles the patients' medical records.
- Development of a web application to manage and monitor the communication between several RabbitMQ instances.
- Diagnosed and fixed WCF performance issues due to incorrect handling and disposal of connections.

Grupo Advantage   *Cd. de Mexico, Mexico*

SENIOR SOFTWARE ENGINEER   *Mar. 2011 - Aug. 2012*

- Developing tools to emit and validate high volumes of Mexican electronic invoices.
- Designed and developed a Thin Client for an Invoice Validation Service helping Grupo Advantage's clients to validate thousands of invoices in minutes instead of days.
- Reused this thin client to create integration and stress tests for this service.

Corporacion Augures   *Cd. de Mexico, Mexico*

COFOUNDER - LEAD DEVELOPER   *Nov. 2010 - May. 2012*

- Responsible for the technical decisions concerning the development tools, databases, and deployment environments for the company applications.
- Designed and developed a Client-Server C#/WPF/WCF application to calculate the assignment of assets in portfolios using the Mean-Variance Model of Harry Markowitz in a dynamic way.

IDS Comercial   *Cd. de Mexico, Mexico*

TECHNICAL LEADER / TECHNICAL SPECIALIST (PRE-SALES)   *Dec 2009 - Feb 2011*

- Led a team of 5 developers and introduced Code Reviews and Test Driven Development methodologies improving the code quality in general.
- Participated in the creation of two successful sales projects analyzing and estimating the requirements.

Digipro   *Cd. de Mexico, Mexico*

ANALYST PROGRAMMER   *Mar. 2008 - Nov. 2009*

- Designed and developed an HTML/JavaScript based document visualisation control to replace an ActiveX plugin.
- Developed a tool to bootstrap new instances of the main application for new customers reducing the configuration time of a new project from 4 days to 4 hours.

CIMAT   *Guanajuato, Mexico*

INTERN / SOFTWARE DEVELOPER   *Sep. 2007 - Feb. 2008*

- Developed an image and video plugin for a Digital Whiteboard Software, allowing the users to write on top of these media types.
- Developed an image-based measurement plugin that could be used on static images and videos.

Honors & Awards

INTERNATIONAL

2007	**Finalist**, Google CodeJam Latin America	*Belo Horizonte, Brazil*

Writing

Los dilemas de Karel   *Book*

CO-AUTHOR   *May. 2006*

- Los Dilemas de Karel (Karel's Dilemmas) introduces the programming language of Karel (created by Richard E. Pattis) for beginners. This book teaches step by step the basis programming concepts such as If-Else, For, and While. Moreover, the recursion concept is addressed in a gentle manner. It includes "from scratch" solutions of novel and creative problems.

Education

Universidad de Guanajuato   *Guanajuato, Mexico*

COMPUTER SCIENCE - TRUNCATED   *Sep. 2002 - Aug. 2007*