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horizontal line

Roberto Gutiérrez García

Senior Software developer / M.Sc. in Computer Science

# **EXPERIENCE**

## Wizeline *- Software Engineer* MAR. 2021 - Present

* Microservices platform. Integration with multiple third party services like Auth0, Mailchimp, FCM, GA4, Adyen, Contentful. All services on AWS and BE with Spring Boot and React.
* Backend Software Engineer for a financial services company, migrating Ruby microservices to Java using Spring Boot.

## Amdocs *- Software developer specialist* JAN. 2017 - SEPT. 2020

* Migrated SOAP services to Restful web services for a billing platform using Perl under a Linux environment and PostgreSQL. Version control: git/Gitlab. Scrum framework.
* Automated report generation and created a dashboard with metrics for the security and compliance of DW. I used web services with python/flask for backend and d3js, bootstrap and html5 in the frontend. This helped to have a daily up to date status of the metadata of DW.
* Supported a JavaEE application that used Rest, SOAP and JMS to interact with other applications. I developed new features of the application.

## Vinkos Tecnología *- Software developer* 2017 - 2017

* Developed a web application to facilitate ETL process management. This module includes an interface for SQL processing, migration of databases between environments, user access control, and monitoring of ETL processes. This module facilitated the support of DW.

## Tata Consultancy Services *- ETL developer* 2015 - 2016

* I developed and monitored ETL processes in IPC and Oracle for a receivables system.

## Freelance *- Software developer* 2015 - 2016

* Developed a platform to gather and classify tweets, using Rest and streaming Twitter API. This application replaced a service contracted by my client. The platform was developed with Python, Django and MongoDB.
* I created a simulator that models the activity in a hospital in real and hypothetical scenarios, as epidemics and lack of staff. This platform was developed using Unity as a frontend (using C#), Java and Spring in the backend.
* I developed the “Technological Observatory” platform using Drupal, PHP, MySQL. This platform consisted of a web search engine that helped interdisciplinary teams to gather scientific articles from different databases, in the Prospective and Technological Intelligence department, *Tecnópoli*, of the Instituto Politécnico Nacional.

## BlueMessaging *- Software developer* 2013 - 2013

* I developed modules for pre-processing/classification of SMS in a client application that we used for natural language processing (NLP). We used Java, Python, shell scripts and Jersey framework for REST services. This application reduced the high loads of calls made to a call center.

## Instituto Politécnico Nacional, Mexico *- Software analyst and programmer* 2009 - 2010

* Re-designed and implemented a financial module in a web application, using HTML, JavaScript, CSS, Coldfusion and PL/SQL in a MVC architecture.

# **EDUCATION**

## IIMAS, UNAM *- M.Sc. in computer science*

Thesis: *Study of degeneracy in random Boolean networks*. Professional certificate Id: 09066182

## ESCOM, IPN *- B.Eng. in computer systems*

Thesis: *Alpha–Beta bidirectional associative memories applied in breast cancer classification*.

Professional certificate Id: 6466874

# CONFERENCE PARTICIPATIONS AND OTHER PROJECTS

## Jalisco sin hambre (2019) *-* [*jaliscosinhambre.org*](https://www.jaliscosinhambre.org/)

Collaboration as a volunteer in backend development for the State government program that allows hungry people access to food donated by third parties, in the amdocs team. Amdocs 2019 innovation of the year award.

**Semana Nacional del Emprendedor (2016)** - [*semanadelemprendedor.gob.mx*](http://semanadelemprendedor.gob.mx)

Panelist at “[Millennials con talento cambiando el futuro](https://youtu.be/ONorCzJcQ_8)”.

**European Conference on Complex Systems (2012)** - [*ECCS’12*](https://cssociety.org/events/7)

I participated in presenting the theme “A Study of Degeneracy in Random Boolean Networks”.

# SKILLS

* Knowledge of multiple front-end frameworks and technologies.
* Linux skills as console commands and shell scripting.
* Programming languages: Java, Python, Javascript.
* Experience using SVN, Git, GitHub Actions.
* REST, SOAP web services.
* HTML5, CSS, Bootstrap, JQuery web, React.
* MongoDB, Oracle, MySQL, PostgreSQL, Hibernate, Design Patterns

# PROFESSIONAL INTERESTS

Cloud computing, web development, Machine Learning, Data Analysis, Complex Adaptive Systems, Big Data, Microservices, Software Architecture