

INTRODUCTION

- In 2010 I graduated from Engineering in Computer Technologies and received a full scholarship (CONACYT and Tec de Monterrey) to study a Master's Degree in Computer Science, that I finished later in May 2012. Both degrees were awarded by the 'Tec de Monterrey', Mexico City Campus. Apart from the educational background, I'm a fan of the gadgets, I like video games and also, I'm a geek of the terminal and VIM.

EMPLOYMENT

Senior Software Engineer	Nubank	May 2021 – Present
---------------------------------	---------------	---------------------------

- Built a solution in the fraud vertical that helped to decrease in 15% the time spent by customer service to process customers that could be identified as potential fraudsters. Technologies used: Clojure, ClojureScript, Kafka, Datomic, and K8s.

Full Stack Engineer	Rappi	Jul 2019 – May 2021
----------------------------	--------------	----------------------------

- Coaching a small team to migrate the old microservices to a new event-based architecture mainly with Kotlin (Spring Boot) and Kafka, but we also used TypeScript (NestJS); that resulted in a more robust infrastructure that powers the Colombian's RappiPay B2B ecosystem. Other technologies used: PostgreSQL, Jenkins, and K8s.
- Built a solution, with Airflow and Python3, that helped in the day-to-day settlement transactions processed by RappiPay systems with Rappi's debit card. This led to an automated process and a more precise and rapid resolution to tens of thousands of support tickets for Mexico and Brasil. Other technologies used: Pandas, Snowflake, K8s.
- Developed new features in the RappiPay vertical, which helped to stabilize the functioning of the platform and make more attractive the use of Rappi's debit card. Technologies used: Node.js, JavaScript with Express/Koa, PostgreSQL, and K8s.

Personal Time	Sep 2018 – Jul 2019
----------------------	----------------------------

- Took personal time to travel abroad and sharpen my english speaking and engineering skills.
- GitHub Universe 2018 (San Francisco, CA), Clean Architecture Course by Robert C. Martin (NYC), and Summer English Course at UMass Boston by UNAM (Boston, MA).

Software Engineer	AMK Technologies	Jun 2017 – Sep 2018
--------------------------	-------------------------	----------------------------

- Led the design and development of a high demand API for registering users to entertainment subscriptions, this helped the company attract new clients. So clients could do their own advertisement of new products and subscribe users using the API. Technologies used: Spring (Core, JDBC), Dropwizard, HBase, Kafka, MySQL, MongoDB, Java 11, Maven, TDD, AngularJS, Angular 2+, React/Redux, and Docker.
- Standardized creation of the frontend projects (React and Redux).

Software Engineer	Indigo	Sep 2016 – Jun 2017
--------------------------	---------------	----------------------------

- Supervised the frontend code base (AngularJS) for Bansefi back office, implementing and teaching best practices, clean code, and incremental refactoring.
- Solved the need of process big CSV files of inventory for Bansefi, by implementing a batch process (Spring Batch) and printing PDF reports with Jasper Reports.
- Led the redesign and development of a "Flights and Hotel Reservation" Ruby on Rails project, that was staled for almost half a year, because there was no Ruby developer. So I had to organize meetings with the previous developer, and then do weekly meetings with the client to report advance and clarify doubts. Culminating in successful end to end tests that implied third party API's.

Software Engineer	Glider Software Solutions	May 2012 – Sep 2016
--------------------------	----------------------------------	----------------------------

- Assisted in the redesign of Citibanamex core system for opening new accounts, applying design patterns, TDD, and continuous refactoring. Resulting in a more maintainable and extensible code base.

- Migrated the Citibanamex frontend system for opening new accounts, from FLEX to HTML (JavaScript/jQuery).
- Led the development of a new CIBanco project called “Multicurrency”, proposing the use of the Grails framework. At the end the project was successfully integrated with the internal REST services and help to achieve the deadline date.

Software Engineer, Intern

Yum! Restaurants International

Jun 2008 – Jan 2009

- Reduced the missing toys between the provider and each franchise branch office by implementing a project that polled the quantity received from the provider, and sending a weekly email to the financial department with a report.
- Implemented a custom survey for the financial department to post recommendations of new reports, resulting in new metrics that helped the financial team.

EDUCATION

Mexico City

Tec de Monterrey

2005 – 2012

- **M.S Computer Science**, Apr 2012. Full scholarship with monthly maintenance fee by CONACYT and Tec de Monterrey.
- **B.S Computer Engineering**, May 2010. CENEVAL National Prize, Egress Test (EGEL).

OTHER PROJECTS

- **Intelligent Tutor System for the Training of Novice Operators of a Combined Cycle Power Plant** (2012). Web based classroom where the professors designs exercises for training operators, it has a 3D model of the power plant, use freesteam open source library for the vapor tables, and grade the operators with the help of Bayesian Networks (Elvira tool). Java, C, MySQL.
- **Timbrao** (2017). Project that helps Mexican people to automatize their tax declarations by taking a photo to their receipts from some stores. PHP, JavaScript, Angular 2+, iOS.

LANGUAGES AND TECHNOLOGIES

- English (Professional working proficiency); Spanish (Native).
- Clojure; ClojureScript; Java; Kotlin; JavaScript; TypeScript; Python; SQL; NoSQL.
- REPL Driven Development; Scrum; Agile; Microservices; CI/CD; Event-Based Architecture; TDD; Unit Tests; Integration Tests; E2E Tests.
- Datomic; Pedestal; Leiningen; Node.js; Express; Koa; NestJS; Pandas; Airflow; Maven/Gradle; Dropwizard; Spring; HBase; Kafka; React/Redux; AngularJS; Angular 2+; Git; Docker; Jenkins; Tekton; AWS (IAM, ECS, S3); K8s.