

MSc. Juan José Guzmán

JAVA FULLSTACK AND MOBILE DEVELOPER

04350, Coyoacán, Ciudad de México

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“Be the change you want to see in the world.”

Developments

Tlatoa

Ionic, Typescript, Angular

<https://play.google.com/store/apps/details?id=com.developersmix.tlatoa>

Hybrid app for to help in the study of languages. It allows you to translate, save, practice and share vocabulary from the study languages. It has an epub and pdf text reader to translate and save vocabulary while reading.

2022

- Development with Angular, Node, Ionic, Typescript and JavaScript.
- Integrate AdMob, InAppPurchase and AppRate for business focus.
- Bootstrap, Prime Faces, Font Awesome and custom SCSS styles.
- Use Google Translate API and Text To Speech (TTS)
- Text viewers and file libraries for to load, save and share are used.

AcquisitionLite fullstack

*Typescript, JavaScript, Angular,
Java, Spring Boot, MySQL*

<http://acquisition.developersmix.com>

Proposal for drugs acquisition process based in user access control with roles and privileges. The modular architecture is used for improve maintenance and growing.

2021

- Frontend
 - Typescript in Angular.
 - Bootstrap, Prime Faces and custom SCSS styles.
 - Responsive forms and directives for user interface control.
 - REST services are consumed with HTTPClient.
 - Credentials and tokens are temporarily obtained and stored while the session is active.
 - Session is shutdown after an inactivity period.
 - Guards are used to control access and conditional methods for to display options.
 - Notifications in client side with socket libraries.
- Backend
 - JAVA and Spring Boots with Spring Security.
 - Model-Repository-Service-Controller as development paradigm.
 - JPA and Hibernate as persistence framework for MySQL database handler and Apache Tomcat as server.
 - The REST API tests are carried out with the Postman application.
 - Sockets in server side to update notifications in frontend

Keep Info Secure

Java, XML, SQLite, Android

<https://play.google.com/store/apps/details?id=com.developersmix.kis>

Android Java program to save passwords and private information. It is possible to store data in 6 different categories: Bank accounts, Emails and Social networks, Services, Internet subscriptions, Devices and Notes.

2021

- JAVA language for Android app.
- SQLite as database handler.
- AES encrypt.
- Google Drive API for to backup.
- Network status watcher and only wifi sync option.

ControllIncidencias fullstack

*Typescript, JavaScript, Angular,
Java, Spring Boot, MySQL*

<http://incidencias.developersmix.com>

Proposal for work absences control based in user access control with roles and privileges. The modular architecture is used for improve maintenance and growing.

2020

→ Frontend

- Typescript in Angular
- Bootstrap, Prime Faces and custom SCSS styles.
- Responsive forms and directives for user interface control.
- REST services are consumed with HTTPClient.
- Credentials and tokens are temporarily obtained and stored while the session is active.
- Session is shutdown after an inactivity period.
- Guards are used to control access and conditional methods for to display options.

→ Backend

- JAVA and Spring Boots with Spring Security.
- Model-Repository-Service-Controller as development paradigm.
- JPA and Hibernate as persistence framework for MySQL database handler and Apache Tomcat as server.
- The REST API tests are carried out with the Postman application.

IncidenciasWeb

JAVA Web, Javascript

<https://github.com/juanjosegc77/IncidenciasWeb>

Java Web MVC Project to control Employees and Vacation.

2018

- JAVA language using MVC model.
- JSP for web pages.
- Javascript and Bootstrap styles.
- MySQL as database handler and Apache2 as server.

AICare

JAVA, XML, Android Studio

<https://github.com/juanjosegc77/AICare>

Development in Android for the thesis “Filter for complex systems type black box on mobile devices” of the Master of Science in Mobile Computing Systems in the National Polytechnic Institute.

2019

- SQLite as database handler
- MPAndroidChart for graphic representation
- Plain text files with time series values are provided for the proposed bookmarks.
- The real values, the respective membership function and the values evaluated in said function (fuzification) are graphed.

Modelo_Python

Python

https://github.com/juanjosegc77/Modelo_Python

Filter model for complex systems

2018

- Python 3.
- Libraries: pylab, matplotlib, pyplot, PdfPages, numpy, seaborn
- Data series in text files.

LC3-en-FPGA

VHDL

<https://github.com/juanjosegc77/LC3-en-FPGA>

FPGA implementation of an LC3-basic Microprocessor.

2018

- DE2-115 Development Kit (FPGA Cyclone IV EP4CE115F29C7).
- Quartus-Prime / Quartus-II Web Edition synthesis tool.
- ModelSim simulation tool for Altera Web Edition.

Simulador-de-desfibrilador

VHDL, C, Matlab

<https://github.com/juanjosegc77/Simulador-de-desfibrilador>

Implantable defibrillator simulator using an MSP430g2553 microcontroller and Matlab.

2016

- An ECG output signal is generated at the headphone jack of a computer using MATLAB.
- The ECG signal is received and sampled on the MSP430.
- The MSP430g2553 microprocessor indicates by lighting a green LED the existence of the R component of the ECG signal. It also returns a value of 0 if component R exists and a 1 otherwise.
- The computer receives the return value from the MSP430 into the microphone jack. With MATLAB this value is read, if the value is 0 nothing happens, if the value is 1 the playback of the ECG signal is restarted.

Work Experience

Java Fullstack and Mobile Developer

Mexico City, Mexico

Freelance

October 2018 – July 2022

- Tlatoa - 2022 - Android app
- AcquisitionLite - 2021 - Java and Typescript fullstack
- Keep Info Secure - 2021 - Android app
- ControlIncidencias - 2020 - Java and Typescript fullstack
- IncidenciasWeb - 2018 - Java Web

Administrative support A8

Mexico City, Mexico

Regional Hospital “Lic. Adolfo López Mateos” (Clinical File)

October 2013 – June 2022

- Clinical records preparation, management and safekeeping.

Social Service

Mexico City, Mexico

Regional Hospital “Lic. Adolfo López Mateos” (Department of Biomedical Engineering)

March 2013 – September 2013

- Inventory update support. Contracts monitoring from medical equipment maintenance companies.

Administrative support A4

Mexico City, Mexico

Regional Hospital “Lic. Adolfo López Mateos” (Assistance Control and Human Resources)

January 1999 – February 2013

- Development and implementation of macros with Excel and Visual Basic to automate incidences processes in the assistance control department.
- Development and implementation of macros with Excel and Visual Basic to automate the justification processes of Nursing Coordination incidences.

Teacher

Mexico City, Mexico

National College of Technical Professional Education (Academic area)

August 1995 – January 1996

- Introduction to computing course in the Specialization course in Administration and Teaching in Nursing.

Social Service

Mexico City, Mexico

Herman Hollerith Institute (Computer lab)

January 1995 – November 1995

- Software installation, support for students, support for teaching staff, hardware maintenance, support for the diskette vaccination campaign, spreadsheet formats elaboration.

Education

MSc. Mobile Computer Systems

Mexico City, Mexico

GRADUATE(National Polytechnic Institute)

2017 – 2019

- Filter for complex black box systems on mobile devices (Honorific mention).

BEng. Biomedical Engineering

Mexico City, Mexico

UNDERGRADUATE(Autonomous Metropolitan University)

2009 – 2014

- Graphical user interface to measure evoked potentials: A LabVIEW based application for the device Neuropack Σ.

Programmer analyst

Mexico City, Mexico

TECH(Herman Hollerith Institute)

1994 – 1996

Languages

Spanish (Native), English (Proficient), Russian (Basic)

Technical skills

Good level

Linux, Windows, Java, Python, Spring Boot, Angular, XML, TypeScript, JavaScript, HTML, Ionic, MySQL, SQLite.

Intermediate

Google Cloud services, Git, SCSS, Inkscape, MATLAB, VHDL, LabVIEW, Multisim, Mathematica, \LaTeX , OpenOffice, MS Office.

Basic level

Django, R, C, VBA, AutoCAD, FreeCAD, SolidWorks.

Learning

Docker, Kubernetes.

Soft skills

Presentation & Public Speaking, Active Listening, Perseverance, Teamwork, Written & Oral

Communication, Creative, Problem Solving, Negotiation, Flexibility, Honest, Proactive, Autodidact.

Certifications

Data analyst

Get trained for employment, Carlos Slim Foundation

- Folio: v6k3s561f

Mexico City, Mexico

March 25, 2020

JAVA SE 8 Programming

Educational organization CertificaTIC, S.C.

- ID: 50478767

Mexico City, Mexico

January 26, 2019

Scrum Fundamentals Certified

VMedu, www.scrumstudy.com

- ID: 600919

Mexico City, Mexico

November 21, 2017

Courses

2nd. NETWORK SECURITY COLLOQUIUM

NATIONAL POLYTECHNIC INSTITUTE and Section of Postgraduate Studies and Research of ESIME,

Zacatenco

- 20 hours

Mexico City, Mexico

April 23-27, 2018

1st. MOBILE COMMUNICATIONS COLLOQUIUM (5G)

NATIONAL POLYTECHNIC INSTITUTE and Section of Postgraduate Studies and Research of ESIME,

Zacatenco

- 30 hours

Mexico City, Mexico

October 16-20, 2017

INTRODUCTION TO THE DESIGN OF DIGITAL SYSTEMS WITH VHDL

Research, innovation, development and education in embedded systems and CBI UAM-I

- 30 hours

Mexico City, Mexico

November, 2013

LANGUAGE C BASIC LEVEL

Herman Hollerith Institute

- 30 hours

Mexico City, Mexico

January, 1996

Presentation

A FILTER MODEL FOR COMPLEX SYSTEMS

XIX International Symposium "Contributions of Universities to Teaching, Research, Technology and Development" (exposition)

Mexico City, Mexico

September 26, 27 and 28, 2018

Filter for complex systems on mobile devices

Academic activities of Expo ESCOM (poster)

Mexico City, Mexico

June 7 and 8, 2018

Mobile signal identification system

6th International Engineering Congress (CIMEEM) (poster)

Queretaro, Mexico

November 13-15, 2017

VIRTUAL INSTRUMENT TO MEASURE EVOCATED RESPONSES WITH A NEUROPACK SIGMA SYSTEM: STAGE 1

Exposition of the Biomedical Engineering Project at the XIX Symposium of the Department of Health Sciences Autonomous Metropolitan University (exposition)

Mexico City, Mexico

November 26-28, 2014