MSc. Juan José Guzmán Cruz

JAVA FULLSTACK AND HYBRID APPS DEVELOPER

Mexico City

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 | ★ https://juanjosegc77.github.io/VCard/

"Be the change you want to see in the world."

Developments _____

Employee activities control	Hybrid
https://youtu.be/4H0JA0xD78Y	
Hybrid application for assigning activities to employees with calendar display.	2023
Ionic, Typescript, Angular, Fullcalendar, Firebase authentication, Firestore	
Study guide	Hybrid
https://youtu.be/mKVgPVJiC-4	
Hybrid app for topical study guide with timer.	2023
Ionic, Typescript, Angular, IndexedDB	
Tlatoa	Hybrid
https://play.google.com/store/apps/details?id=com.developersmix.tlatoa	
Hybrid app helping in the study of languages. It allows you to translate, save, practice and share	
vocabulary from the study languages. It includes 4 games to help memorize new vocabulary. Option	2022
to backup the information that the user generates when using the application.	
Angular, Ionic, Typescript, AdMob, InAppPurchase, AppRate, Bootstrap, Prime Faces, Font Awesome, Cloud Translation	n API, Azure Text To Speech
API, Google Drive API, Firebase Authentication	
AcquisitionLite	Fullstack
http://acquisition.developersmix.com	
Fullstack app for drugs acquisition process based in user access control with roles and privileges. The	2021
modular architecture is used for improve maintenance and growing.	2021
→ Frontend	
Angular, Typescript, Bootstrap, Prime Faces, REST services, Guards, Notifications with socket libraries. Payland	
 Backend JAVA, Spring Boots, Spring Security, JPA, Hibernate, MySQL, Apache Tomcat, Sockets. 	
Keep Info Secure	Android
https://play.google.com/store/apps/details?id=com.developersmix.kis	7 in a rota
Android app 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	2021
Notes.	
Java, XML, SQLite, Android, AES encrypt, Google Drive API	
Controllncidencias	Fullstack
http://incidencias.developersmix.com	

→ Frontend

• Angular, Typescript, Bootstrap, Prime Faces, REST services, Guards, inactivity watcher.

Fullstack app for work absences control based in user access control with roles and privileges. The

- → Backend
- JAVA, Spring Boots, Spring Security, JPA, Hibernate, MySQL, Apache Tomcat.

modular architecture is used for improve maintenance and growing.

2020

IncidenciasWeb JAVA Web

https://github.com/juanjosegc77/IncidenciasWeb

Java Web MVC Project to control Employees and Vacation.

JAVA with MVC model, JSP, Javascript, Bootstrap, MySQL

AlCare Android

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.

JAVA, XML, Android Studio, SQLite, MPAndroidChart

Modelo Python Python

https://github.com/juanjosegc77/Modelo_Python

Filter model for complex systems 2018

Python 3, pylab, matplotlib, pyplot, PdfPages, numpy, seaborn

LC3-en-FPGA VHDL

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

FGPA implementation of an LC3-basic Microprocessor.

- 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

2016

2018

2019

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

Implantable defibrillator simulator using an MSP430g2553 microcontroller and Matlab.

• 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 October 2018 – July 2023

Freelance

• Employee activities control - 2023 - Hybrid

- Study guide 2023 Hybrid
- Tlatoa 2022 Hybrid
- AcquisitionLite 2021 Fullstack
- Keep Info Secure 2021 Android
- ControlIncidencias 2020 Fullstack
- IncidenciasWeb 2018 Java Web

Administrative support A8

Mexico City, Mexico

Regional Hospital "Lic. Adolfo López Mateos" (Clinical File)

October 2013 - July 2023

• 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)

· 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

August 1995 - January 1996

• 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), Thai (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, 四天, 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 _____

Get trained for employment, Carlos Slim Foundation

Mexico City, Mexico

March 25, 2020

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• Folio: v6k3s561f

Data analyst

JAVA SE 8 Programming

Educational organization CertificaTIC, S.C.

• ID: 50478767

Scrum Fundamentals Certified

 ${\it VMEdu, www.scrumstudy.com}$

• ID: 600919

Mexico City, Mexico

January 26, 2019

Mexico City, Mexico

November 21, 2017

Courses _____

2nd. NETWORK SECURITY COLLOQUIUM

 ${\bf NATIONAL\ POLYTECHNIC\ INSTITUTE\ and\ Section\ of\ Postgraduate\ Studies\ and\ Research\ of\ ESIME,}$

Zacatenco

• 20 hours

1st. MOBILE COMMUNICATIONS COLLOQUIUM (5G)

 ${\tt NATIONAL\ POLYTECHNICAL\ INSTITUTE\ and\ Section\ of\ Postgraduate\ Studies\ and\ Research\ of\ ESIME,}$

Zacatenco

• 30 hours

INTRODUCTION TO THE DESIGN OF DIGITAL SYSTEMS WITH VHDL

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

30 hours

LANGUAGE C BASIC LEVEL

Herman Hollerith Institute

• 30 hours

Mexico City, Mexico

April 23-27, 2018

Mexico City, Mexico

October 16-20, 2017

Mexico City, Mexico

November, 2013

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)

September 26, 27 and 28, 2018

Filter for complex systems on mobile devices

Academic activities of Expo ESCOM (poster)

Mexico City, Mexico

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