

SERGIO GABRIEL SANCHEZ VALENCIA

gabrielssanv97@gmail.com

55-7332-4798

github.com/searleser97

EDUCATION

Escuela Superior de Cómputo (ESCOM), IPN

Bachelor of Science in Computer Engineering

Graduating in July 2020

GPA 9.6 / 10

Member of "COMPETITIVE ALGORITHMS CLUB – ESCOM"

CECyT #9 "Juan de Dios Batiz", IPN

Technician in programming

2013 - 2016

GPA 8.5 / 10

MAJOR PROJECTS

HeartPrevent (<https://github.com/searleser97/HeartPrevent>)

2016

Application that helps to prevent diseases through phone alerts and a social network focused on health (medical-network).
The phone alerts are caused by 2 reasons:

1. A heart rate reading out of the regular range from an **IoT** bracelet.
 2. If the user needs to take a medicine at that time.
- Designed and developed for desktop (JavaFx), mobile (android) and web versions using APIs like Google Cloud Messaging, PayPal and libraries like Jasper Reports.
 - The backend was implemented as a RESTful API using Spring-Boot, MariaDB, NodeJs.
 - The bracelet was built with an Arduino Nano (C++), a Pulse Sensor Module and a Bluetooth DIY Module.
 - FrontEnd: HTML, Sass, JQuery, Ajax.

Optimizacin (<https://github.com/searleser97/OptimizationAp>)

2017

An application that helps students to understand how calculus is used to solve optimization problems by showing them these problems represented as animations with which they can interact.

- Developed for IOS and Android using NativeScript.
- A web version was built intended for teachers to use it as a class material (full-responsive).
- FrontEnd: HTML, CSS, JQuery.

EarthMozione (<https://devpost.com/software/earthmozione-4fd7hq>)

2018

An **IoT** application that consists on a network of seismic sensor devices connected to each other providing feedback among them to alert with seconds of anticipation about an earthquake from a mobile application to the user .

- Developed for android
- The electronic device was interconnected with the mobile device using Arduino Bluetooth.
- Interconnected using Huawei Cloud services

SKILLS

PROGRAMMING LANGUAGES

3 years: Java, JavaScript
2 years: C/C++, SQL
1 year: Python, PHP

TECHNOLOGIES

HTML, CSS, Sass, JQuery, Ajax, Angular 2/4,
NativeScript, JavaFX, Spring-Boot, MariaDB,
MySQL, SSH, Git, Unix/Bash, Android SDK.

AWARDS

1st Place in MxHacksV [MLH] **Hackaton**
with the project "EarthMozione":
<https://devpost.com/software/earthmozione-4fd7hq>

(september 2018)

1st Place in programming at Expo-Batiz for best
computer system (HeartPrevent) in whole generation

(june 2016)

3rd Place team in second date of
"Gran Premio de México & CentroAmérica"
ACM-ICPC 2017

(august 2017)

ONLINE COURSES

Machine Learning A-Z (Udemy, in progress)