

ANDY LEDESMA GARCÍA

Computer Scientist

@ andy.ledesma.garcia@gmail.com
MakeMake23 @andyRsdEla

+53 53821860

Havana, Cuba

@make_make23



EXPERIENCE

Part-time Android Developer

Hospital Book Project

Aug 2022 – Ongoing

Havana, Cuba

- Made a first version of an Android application to show an encrypted book on medicine.
- Published the application on the Cuban site Apklis for sale.
- Currently developing a second version that allows integration with the Cuban Transfermóvil payment gateway.

Stack: Kotlin, Java.

Part-time Full-stack Developer

BeRichCuban

Aug 2019 – Mar 2021

Havana, Cuba

- Implemented a large part of the front-end and back-end of two web applications.
- Worked on the integration with the Payeer Payment API to charge for the services of a website.
- Connected the Instagram API to a web page that allowed the management of likes and followers.
- Learned to work as a team using technologies like Git, Azure DevOps, Github, and Teams.

Stack: C#, ASP .NET Core, EF Core, Razor, Blazor, JavaScript, Bootstrap, Docker.

EDUCATION

B.Sc. in Computer Science

Havana University

Sep 2018 – Dec 2022

Havana, Cuba

Relevant coursework:

- Hyperledger Fabric for Developers
- Distributed Systems
- Data Structures and Algorithms
- Simulation
- Artificial Intelligence
- Machine Learning
- Data Bases
- Software Engineering
- Compilers
- Programming Languages

Extracurricular activities:

- Researching on Infinite Variable Neighborhood Search for the Vehicle Routing Problem.
- Teacher's assistant for a whole year.

MY LIFE PHILOSOPHY

*"Today better than yesterday.
Tomorrow better than today..."*

TECHNICAL SKILLS

Programming Languages

C#

Python

C

Solidity

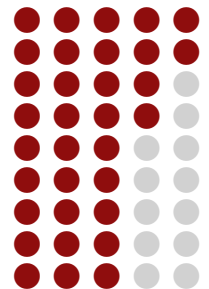
Golang

JavaScript

x86 assembly

Kotlin

C++



Frameworks, Tools and Technologies

.NET Truffle gRPC Blazor EF Core
Ethereum Docker Git Github
Azure DevOps Bootstrap

Others

Programming High Math Data Structures
Algorithms Back-end Development
Blockchain Development Logic
Database Design Clean Code

SOFTSKILLS

Collaboration Quick Learning
Problem Solving Communication
Hard-working Eye for Detail

LANGUAGES

Spanish



English



High School Diploma

IPVCE Vladimir Ilyich Lenin

📅 Sep 2014 – May 2017

📍 Havana, Cuba

- Linked to C++ programming contests since the first year.
- Member of the national preselection for international programming contests since the second year.
- Developed an application in Python to evaluate Chemistry contestants.

PROJECTS

Implementation of a Representative Voting System on Quorum

Havana University

📅 Mar 2022 – Dec 2022

- A smart contract was designed to support a representative voting system.
- Votes are assigned fairly to candidates in a voting cycle.
- Only one winner is obtained by applying the Instant-Runoff Voting method.
- The winner is computed in $O(n \log n)$ time.
- The contract was deployed on a Quorum network.

Stack: Solidity, Truffle, JavaScript, Node.js.

e-tournaments

Havana University

📅 Apr 2022 – Jul 2022

Distributed system that allows the organization of tournaments of any game between two virtual players. The computing and storage capacity of various computers is used.

- The players and the game can be defined by the user through a web interface.
- Consultation and visualization of all the results and statistics of the tournament in a web interface.
- A Distributed Hash Table and leader election algorithms were implemented to ensure fault tolerance to some extent.
- The implementation of remote procedure calls created by Google (gRPC) was used.

Stack: Golang, gRPC, Python, Streamlit, Docker, Docker-Compose, BuntDb.

Cine+

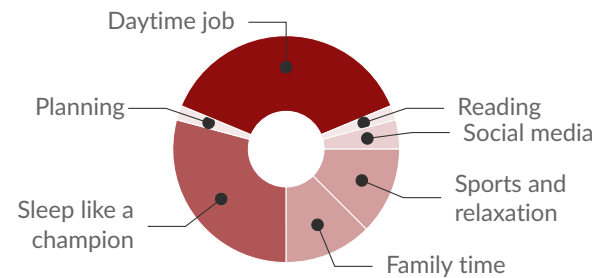
Havana University

📅 Apr 2021 – Jun 2021

Cinema ticket sales system.

- The hours and rooms available are shown.
- Automatic seat assignment.
- Discount support for special days and specific people.
- Sale of tickets and cancellation of purchases.
- Point system that can be exchanged for tickets.

A DAY OF MY LIFE



REFEREES

PhD. Yaidir Mustelier Ruiz

@ Havana University

✉ yaidir.mustelier@matcom.uh.cu

Assistant Professor at the Institute of Cryptography.

Leader of the project "Implementation of a Representative Voting System on Quorum".

MSc. Fernando Rodriguez Flores

@ Havana University

✉ fernan@matcom.uh.cu

Head of the Applied Mathematics Discipline of the Computer Science Career.

Leader of the project "Infinite Variable Neighborhood Search by Generating Criteria from Smallest to Largest".

- Consultation of sales statistics.
- Management by the administrators of the information of the films and rooms that are in the system.
- 3D preview of how the movie looks from any seat in a room.

Stack: C#, ASP .NET Core, EF Core, Razor, JavaScript, Bootstrap.

Infinite Variable Neighborhood Search by Generating Criteria from Smallest to Largest

Havana University

📅 Feb 2020 – Nov 2021

- Algorithm for solving the Vehicle Routing Problem.
- It's a variant of the Infinite Variable Neighborhood Search.
- Good results were obtained.

Stack: .NET, C#.