

Daniel Orlando Ortiz Pacheco

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Certifications

- [Python HankerRank](#)
- [Python LinkedInTest](#)
- [Machine Learning LinkedInTest](#)
- [Problem Solving HankerRank](#)
- [GO Sololearn Course](#)

Languages

Spanish: Native
English: A2

Technical Skills

General Developer Skills:

- Programming Languages: **JavaScript, TypeScript, C#, Python, Haskell, Golang**
- Functional Programming
- Domain Driver Design
- Test Driver Design
- Object Oriented Programming
- Version Control Systems: **Git, Github y Gitlab**
- Agile/Scrum Methodology
- Project Management

BackEnd Developer Skills:

- Databases: **MySql, MongoDB, PostgreSQL**
- API Design and Development
- Implementation and design of usable **RESTful APIs**.
- Data Structures and Algorithms
- Multithreaded Software Applications
- JS Frameworks: **ExpressJS, NestJS**
- Orm Frameworks: **TypeOrm, Sequelize, Moongoose, Knex**
- Microservices Architecture: **Grpc, Kafka**
- **Docker**, DockerCompose and DockerFiles
- Testing Frameworks: **Jet, Mocha, PyTest**

Data Scientist Skills:

Summary

Computer Scientist with work experience as a **NodeJS FullStack** developer and participations in academic and open source research as a **Python Data Engineer**. He is fluent in Python, TypeScript, JavaScript, Go and C# languages and has written code in Solidity, Haskell, Bash, SQL, Prolog, Mips, C and C++. He is very interested in the philosophy behind each design pattern, so he tends to read a lot about them and about best practices in general. He is knowledgeable about many of the concepts, problems and algorithms in the **AI** and **ML** industry. He is also self-taught in blockchain technologies (especially **Ethereum, Hyperledger Fabric** and **Forta**).

On a personal level he considers himself professional, responsible and serious at work, with analytical, moderation and problem solving skills. He also has the ability and motivation to keep learning.

Education

• Bachelor's degree in Computer Science

Faculty of Mathematics and Computer Science (Matcom). University of Havana Cuba
Sept 2017 - Present

Experience

• Open Source Contributions, Ago 2022 - Present

- Developer of the **Hyperledger Fabric Python SDK**
In contribution with the cryptography group of the University of Havana\ Sept 2022 - Present
For this project I had to learn about all the important **Hyperledger Fabric Network** processes and then develop the connectors between the network's binary and a new DSL in Python.
- Creator and developer of Python's library **Py-Search-Space**
In contribution with **AutoGOAL**'s authors and IA group of the University of Havana \ Ago 2022 - Present
This project is a new tool in Python to hierarchically describe different search spaces and generate samples from these descriptions. Its development has required a high level of **metaprogramming**, a great deal of creativity and a lot of knowledge of **search, IA, ML and AutoML problems**.

• Python Data Engineer at **PostdataClub**, Ene 2022 - Ago 2022

PostdataClub is a data journalism website, which annually offer an internship where I can get hands-on experience on **data science, AI and ML problems**. Furthermore, I was able to use tools like spacy, sklearn, tensorflow and open source scrapers on real projects. **Here** is my GitHub organization with all the work I did there, they are about:

- Social Medias Data Mining and NLP Analyze.
- Unsupervised Content Similarity Detection (NLP).
- Opinion Text Generation (NLP).

• NodeJS Backend Developer at **Guajiritos SRL.**, Jun 2021 - Ago 2022

Guajiritos SRL. is the first MyPyme of Cuba, is a Startup specialized in SaaS development of business management systems, business and marketing b2b and b2c. In just a year of work I collaborated in more than 6 projects of the company, becoming leader and maintainer of one of yours most important projects. As project leader I had to attend the different demands of the clients and manage the development group, with a maximum composition of 3 people. Also on several occasions I helped the rest of the company's teams as a consultant. Main participations:

- Unified Tourism GDS, Nautical Marinas Management Module (**NestJS Developer**).
- ERP Palmares Restaurants, Warehouse Management and Accounting Module (**NestJS Developer**).

- Data Structures and Algorithms
- Search Heuristics Algorithms
- Keras and **Tensorflow**
- Data Transform and Model Select by **Sklearn**
- Tokenizing by Spacy

FrontEnd Developer Skills:

- JS Frameworks: **ReactJS**, **AngularJS**
- **CSS**, **HTML**
- Responsive Web Design
- Software Components and Libraries

- EON Transportation GDS (National Bus Company), Waiting List Management Module, (**ExpressJS and AngularJS Developer**).
- Tourism GDS, Experiences and Circuits Management System (**Team Leader and ExpressJS Developer**).
- Online Store, Microservices Version (**NestJS Developer**)

• Interesting Personal and Academic Projects

- **GitHub's repo** with the collection of **Dockerfiles** and **DockerCompose** that I have used in other projects
- **Compiler for COOL language**. Parses COOL code from plain text to generate mips code. Implemented in Python and following the TDD design pattern. Its repo is [here](#)
- **Distributed Scraper**. In this project I implemented the distributed protocol chord with Python and its sockets. Its repo is [here](#)
- **TCP Protocol Implementation**. In this project I implemented the protocol on a insecurity transfer layer. Its repo is [here](#)
- File Management System. This system is compose for the Smart Contract, implemented with the **Hyperladger Fabric Go SDK**, and the Dapp, implemented with the same SDK and **IrisGo**. The repo of Smart Contract is [here](#) and the repo of Dapp is [here](#)

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