Daniel Orlando Ortiz Pacheco

Contact

GitHub: *@danielorlando97*
GitLab: *@dorlando97*
Gmail:
danielorlandoortizpacheco@…
Telegram: *@DanielOOP*
WhatsApp: *+53 53029854*

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, **Moongose**, **Knex**
- Microservices Architecture: **Grpc**,
  Kafka
- **Docker**, DockerCompose and
  DockerFiles
- Testing Frameworks: **Jet**, **Mocha**,
  PyTest
  Data Scientist Skills:

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

Summary

Computer Scientist who was studying nuclear physics when he discovered that his passion was programming. Work experience as **Backend Developer** and **Team Lead**. Besides having a very interesting portfolio of contributions and open source projects in various fields (Web2, AI, Blockchain, Distributed Networks, Theories of Language, …). He is fluent in Python, TypeScript, JavaScript, Go and Solidity and has written code in C#, Haskell, Bash, SQL, Prolog, Mips, C and C++. Passionate about design patterns, DDD, TDD, Clean, OOP, FP. Also semi self-taught in AI, ML and 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. In addition, he 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 - Dec 2022

- **Cerfifications**

  - **Go** by: **Sololearn**
  - **Java** by: **Sololearn**
  - **Python** by: **LinkedIn**, **HankerRank**, **Kaggle**
  - **Machine Learning** by: **LinkedIn**, **Kaggle (Introduce)**, **Kaggle (Other)**
  - **Pandas** by: **Kaggle**

About Me

In 2016 I entered the faculty of nuclear physics at the University of Havana, there I discovered programming, fell in love, finished the first year with the best grades and applied for a change of major. Therefore, I dedicate myself to the world of development and programming entirely by vocation. For me the most important thing is to contribute to amazing projects and ideas and to be part of creative and human environments. In recent years I have worked and studied (at university and self-taught) at the same time, so I have become an organized person, with self-management skills and with a lot of capacity for sacrifice. I am very confident in my abilities and my personality, so I don't have problem to start from the bottom and prove my worth. In my first professional experience I started as an intern without knowledge of the language and frameworks and in less than a year I became the leader of the development team of one of its main projects.

Experience

- **Open Source Contributions, Ago 2022 - Present**

  - Developer of the **Hyperledger Fabric Python SDK**, Sept 2022 - Present
    In contribution with the cryptography group of the University of Havana
    Skills: **Python** / **DSL** / **Hyperledger Fabric Binaries** /**Docker** / **Bash** / **DDD** / **FP**

  - Creator and developer of Python's library **Py-Search-Space** Ago 2022 - Dec 2022
    In contribution with **AutoGOAL**'s authors and IA group of the University of Havana
    Skills: **Python** / **Metaprogramming** / **DSL** / **AST** / **Visitor Pattern** / **TDD** / **FP** / **Search Problems** / **ML** / **AutoML** / **GitHub's Actions**

- **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 <u>Guajiritos SRL.</u>, Jun 2021 - Ago 2022**

  Guajirtos 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**).
  - 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**)

Project Portfolio

- **<u>GitHub's repo</u>** 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 **<u>here</u>**
- **Distributed Scraper**. In this project I implemented the distributed protocol chord with Python and its sockets. Its repo is **<u>here</u>**
- **TCP Protocol Implementation**. In this project I implemented the protocol on a insecurity transfer layer. Its repo is **<u>here</u>**
- 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 **<u>here</u>** and the repo of Dapp is **<u>here</u>** <!– ## Technical Skills

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- **FrontEnd Developer Skills:**

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