Victor Cataño

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EDUCATION

Universidad Nacional de Colombia sede Medellín

Undergraduate in Systems and Informatics Engineering; GPA: 4.5/5

Medellin, Colombia

Jan. 2015 - Dec. 2021

Pontificia Universidad Católica de Valparaíso

Student exchange program, awarded by Alianza del Pacífico scholarship

Valparaíso, Chile Feb. 2019 - Jul. 2019

Online courses Coursera

o Specialization: Architecting with Google Compute Engine

• Algorithms: Design and Analysis (Stanford University)

Nov. 2019 - Ene. 2020

WORK EXPERIENCE

Globant Medellin, Colombia Flutter Developer Mar. 2022 - present

• Re-engineered a legacy Ionic/TypeScript app into Flutter/Dart for The Walt Disney Company.

- Decreased delivery times considerably by designing a modular, easy-to-reason, and error-avoiding architecture that allows other developers in the team to contribute effectively.
- Refactored many modules and mechanisms to make the code more stable, comprehensible, and concise by applying SOLID principles, functional programming and design patterns.
- Leveraged agile methodologies to work effectively with a remote team of 7 in different parts of the globe.
- Increased the product reliability through the implementation of different automated testing strategies.
- o Contributed with disruptive ideas to make the project succeed.
- Mentored the team on the state-of-the-art of the Flutter community, using popular packages like riverpod, bloc and go_router.

Gomac Research Group

Medellin, Colombia

Software Engineer

Sep. 2020 - Feb. 2022

- Led the development of a multi-platform application (Android, iOS, and Web) using Flutter, that improves processes involving inspections and analysis of the obtained data.
- o Meticulously planned the low and high-level architecture, using design patterns of **Object-Oriented** Programming, Functional Programming, SOLID Principles, and Test-Driven Development for building a modular, maintainable and testable product.
- Leveraged many state-of-the-art packages and techniques used by the Flutter community like: riverpod, hooks, bloc, auto_route, go_router, freezed, reactive_forms, drift, and dartz.
- Implemented offline operation and synchronization among many clients.
- Used relational databases (PostgreSQL y SQLite) to implement complex relationships among the data, both locally and on the server.
- Wrote the backend in Python using Django y Django Rest Framework with high test coverage.
- Mentored a group of developers who collaborated on the project using workflows with issues and pull requests reviewing on **GitHub**.
- Implemented Github Actions for CI/CD on the frontend and backend repositories.

Bancolombia Medellin, Colombia Python developer Jan. 2021 - Jul. 2021

- Led a team of 3 developers in the design and implementation of a web scraper for the biggest bank in Colombia using Python and Scrapy framework, capable of obtaining information from more than 200 websites.
- Used effectively different information extraction techniques for HTML, PDF, JSON, and other documents.
- o Greately reduced the time and memory consumption by taking advantage of Scrapy's queuing, parallelism, connection management, cache building and asynchronous programming.
- Designed a clean and organized error and data management using design patterns and Scrapy tools like spiders, middlewares and pipelines in order to obtain structured and important information.

Universidad Nacional de Colombia

Cloud Administrator - Part-time

Medellín, Colombia Nov. 2018 - Jul. 2021

- Maintained a **Moodle** system that served 3200 engineering students per year, with extra plugins which allowed teachers to create programming questions in many languages.
- Provisioned resources and configured the architecture in **Google Cloud Platform** in order to support the load and reduce costs.
- Managed many Linux (Debian and Ubuntu) servers, using the command line in order to improve performance, install the necessary software, increase security and automate tasks like backups and certificate renewals.
- Modified the source code of some plugins written in PHP, Javascript, HTML, BASH, etc. Using Git for change management.
- Developed a plugin that uses a fingerprint reader to reduce fraud on exams. Made it with **PHP**, **Javascript**, **C**#, **and Firestore**. Was installed in a computer lab where 500 students can take exams with fingerprint verification.

Institución Educativa Pbro. L.E.P.M

Barbosa, Colombia

Web Developer - Part-time

Feb. 2014 - Aug. 2014

- Designed and implemented a e-voting platform for selecting a students representative in a high-school. The project
 was done before finalizing his high school studies and was written from scratch using plain HTML5, Javascript,
 CSS, JQuery, PHP, and Mysql.
- Created a fast and user-friendly voting with live results for 2000 students which voted in three places concurrently.

PROJECTS

• [Personal Project] Inventory Management App

Oct. 2022 - present

Writes a Flutter app for managing the inventory and accounting, using cutting-edge packages like **isar**, **riverpod**, **hooks**, **and material 3**.

• [Group Project] Group building platform

Jul. 2018 - Nov. 2018

Planed and implemented a plataform that allows to build teams in any organization based on their abilities, in the project requirements and had the posibility of using AI. Used **Angular and Spring Boot with CI/CD in GitLab.**

• [Group Project] Software Boulevard (Educational game)

 $Feb. \ 2018$ - $Jun. \ 2018$

Developed a question-answer competitive game with an strict process of requirement eduction. Worked in cooperation with 15 distributed teams in Colombia, USA and China using distributed software development techniques. Used **Ionic**, **Angular**, **MongoDB** and an API in **NodeJS**, the project was deployed in Google Cloud Platform.

• [Personal Project] Banknote recognition software

Jul. 2017 - Nov. 2017

Wrote a **Python** script using computer vision techniques and **OpenCV** that receives a photo and returns the amount of money present. Can be used to help people with visual disabilities.

• [Personal Project] CPU Benchmark

Feb. 2017 - Jun. 2017

Wrote a benchmark using C++ and assembly in order to compare the performance of different CPUs in integer and floating point operations.

• [Group Project] Real Estate management application

Jul. 2016 - Nov. 2016

Led a team developing a **Java** application with GUI using Object Oriented Programming in order to implement complex business rules that allowed managers, buyers and sellers to trade real estate.

PROGRAMMING LANGUAGES

Advanced: Dart, Java, Python, SQL

Medium: Javascript, PHP

Basic: Go, Rust, Matlab, C#, C++, Haskell, Prolog,

SPARQL, PLSQL, Bash

AWARDS

• Awarded with Alianza del Pacífico scholarship (2019).

• Honor enrollment at his university for having one of the best grades (2016-2019).

• Selected by a local government scholarship for my university studies (2015).

HOBBIES

Photography, Travel, Hiking, Mechanics, Electronics.

TECHNOLOGIES

Flutter, Django, Google Cloud Platform, Git, Unix/Bash, Docker, HTML, CSS, Ionic, Angular, Spring Boot, Laravel,

Moodle, Wordpress, OWASP, Node.js.

LANGUAGES

Spanish: Native English: Advanced