

Jose Alejandro Concepcion Alvarez

Software Engineer | Ph.D student in Computer Science

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ዶ■ SUMMARY

I have a degree in Automation Engineering and I am currently enrolled in a Ph.D. program in Computer Science.

As a software developer:

I have three years of experience developing web applications using JavaScript and Python frameworks. I have developed different complex interfaces for the UI and created several services for the backend.

I have created mobile applications for controlling cyber-physical systems.

All the experience accumulated was under agile work methodologies.

As a university student:

I have researched in the robotics field, working on and developing prototypes of wheeled mobile robots. I have participated in the ACM International Collegiate Programming Competition (ICPC), where I solved programming problems that require algorithm and data structure knowledge.

	ℰ EDUCATION	
11/2021 - present	Ph.D in Computer Science Gran Sasso Science Institute ☑	L'Aquila, Italy
2014 - 2019	Bachelor in Automation Engineering (single-cycle 5 years) Technological University of Havana (CUJAE) ☑	La Habana, Cuba

PROFESSIONAL EXPERIENCE

11/2021 - present

Computer Science Ph.D. student

L'Aquila, Italy

GSSI ♂

I have worked on projects related to robotics, IoT systems, and algorithms:

- The development of a self-adaptative strategy on top of PID algorithms for a two-wheel self-balancing robot. ☑
- The development of a microservice for waste image classification and materials label extractions. ☑
- The development of an algorithm based on Dijkstra modification for solving the SSSP on electric vehicles with battery duration constraints.

 □
- The development of a file browsing application for Linux that uses a multithreaded BFS algorithm. □

07/2021 - 10/2021 React Developer

BOOZ.cl

Development and maintenance of an eCommerce platform

for the sale of beverages. (https://booz.dev/ ♂)

Working with NextJs framework, React components development using Redux, React hooks, and Tailwindcss.

06/2021 - 09/2021

JavaScript Developer

Bogota, Colombia

Alegra 🛮

Development of microservices using AWS. Creation of

lambda functions on NodeJs and Python environment.

Development of integration with AWS services like S3,

Aurora RDS, and Cognito.

09/2018 - 04/2021

Full Stack Developer

La Habana, Cuba

Guajiritos 🛮

Frontend development and backend development using JavaScript frameworks.

- Development of a streaming web application based on Netflix design

 (techs: Node.js, Angular, MySQL).
- Development of an ecommerce system with B2B and B2C business models for the Mercedez Benz agency in Cuba

 (techs: Node.js, Angular, MySQL, MongoDB, Ionic).
- Development of hotel and events management system for HavanaturSA ☑ (techs: Node.js, Angular, Vue.js, MySQL).

2019 - 2020

Trained Professor

Habana, Cuba

Technological University of Havana (CUJAE) 🛭

I have taught practical classes about programming 8051 microcontrollers in assembly and C language. Also how to

use the Matlab tool.

© CERTIFICATES

- Problem Solving Certificate (HackerRank) 🛭
- Front End Libraries (freeCodeCamp) ☑
- Angular Certificate (HackerRank) 🛮
- APIs and Microservices (freeCodeCamp) ☑
- ICPCID ICPC International Collegiate
 Programming ContestContest ☑
- Data Analysis with Python (freeCodeCamp) ☑
- Rest API Certificate (HackerRank)

- JavaScript Algorithms and Data Structures (freeCodeCamp)
- Node.js (HackerRank) □
- React Certificate (HackerRank) 🛮
- SQL Certificate (HackerRank) ☑
- Scientific Computing with Python (freeCodeCamp)
- Machine Learning with Python (freeCodeCamp)



Programming languages: (JavaScript, TypeScript, C++, C, Python)

Frameworks: (Angular, Vue.js, Node.js, React.js, Next.js, Electron, Flask, Pandas)

Databases: (MySQL, MongoDB)

Mobile Frameworks: (Ionic, React Native, AppSheet)

Version Control Systems: (Git)

Operating systems: (Linux, Windows, IOS)

AWS (Serverless Api Gateway, Lambda functions, S3, RDS)

Embedded systems (Raspberry Pi, Arduino)

⋈ OPEN SOURCE CONTRIBUTIONS

Linux Search Everything 🗆

linux application: .deb, .rpm, .zip

It is a faster and more flexible file browser for Linux. It offers rich capabilities such as case sensitivity, regular expression-based search, search by selecting multiple file types, control of the algorithm's depth, and more.

ngp-image-picker

npm package

Angular library for selecting, editing and compressing images in the web browser. You can apply filters, change formats, resize and compress the image.

react-image-picker-editor 🛮

npm package

React library for selecting, editing and compressing images in the web browser. You can apply filters, change formats, resize and compress the image.

react-basic-stepper ☑

npm package

The react-basic-stepper provide a two component to recreate a wizard-like workflow by dividing content into logical steps.

react-hook-modal

npm package

A custom modal, with a custom hook for handling modals in React applications. This package allows us to centralize the logic for rendering modal components.

LANGUAGES

