

Yhoan Alejandro Guzmán García

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EDUCATION

EAFIT UNIVERSITY

Computer Science

Expected graduation date: June 2022

GPA 4.61 / 5.0

WORK EXPERIENCE

EAFIT UNIVERSITY

Medellín, Colombia

Research Assistant in an Engineering Ph.D. project: "Quantitative methods for data analysis of urban distribution problems" January 2019 - Present

- Designed and developed a mobile application using Dart - Flutter to collect data tracking motorcycle couriers' routes, service times, and driving times.
- Processed and cleaned the acquired data and did data exploration using python to prepare a training dataset for a Machine Learning model. This model would help to better plan delivery routes, correctly choose the number of necessary couriers, and better choose the items that each one carries.

Teaching Assistant

January 2019 – December 2019

- Helped students overcome difficulties in Data Structures and algorithms I, Logic, and Differential Calculus.

COURSE PROJECTS

Dengue Severity Prediction and Prescription

February 2021 - Present

- Explored and cleansed data from the Medellín Townhall public dengue report.
- Implemented a Random Forest classifier as the first approach for a dengue severity prediction, finding features importance and correlations.
- Currently developing a regression model.

Fish Store

June - November 2020

- Designed and developed with a team of three an online Fish Store (using PHP and Laravel) with client and administrator modules, following an MVC architecture and the SOLID principles.
- Deployed the web application in AWS with Docker for continuous integration.

Agriculture Management and Automation System

June - November 2019

- Designed, programmed (using C++), and assembled a hydroponic irrigation system for urban farming, which automates processes such as watering, light cycling, and nutrient injection. Also, the system analyzes and collects plants' data in real-time, gives cultivation recommendations, alerts failures in the crop system directly to the mobile phone, and can be remotely operated.
- Implemented the system and successfully grew and harvested lettuce at home, reducing manual labor by around 70 %.
- Led a team of four in the development of the project.

Won EAFIT's University GEMIS Award for best Emerging Technologies project of the year

EXTRACURRICULAR COURSES

Linux Server Administration, AWS Cloud, Docker, Kubernetes, and DevOps by Platzi

Machine Learning by University of Stanford

Neural Networks and Deep Learning by deeplearning.ai

Machine Learning class of Spring 2015 by Carnegie Mellon University

Platzi

Coursera

Coursera

Public class files

SKILLS

PROGRAMMING LANGUAGES

2 years: Python, Java, PHP. 1 year: Flutter framework, Dart

LANGUAGES

Spanish (Native), English (Advanced), German (Basic)

ACHIEVEMENTS AND AWARDS

- Awarded a scholarship from Platzi and Clouxter to study Linux Server Administration, AWS Cloud, Docker, Kubernetes, and DevOps (2021).
- Placed 19 out of 86.000 participants in the Medellín Knowledge Olympiads 2017 (Topics: Mathematics, Language, Natural Sciences, and Social Sciences).
- Awarded three merit-based full college scholarships in 2017:
 - Medellín City Town Hall scholarship for best graduates.
 - The Government of Colombia "Ser Pilo Paga" scholarship program for excellent results in the national test ICFES.
 - EAFIT University scholarship for the 15 (out of 300) best-performed students of a yearlong leveling program in math and Spanish language (currently studying with this scholarship).
- Awarded with the Medellín City Town Hall support scholarship for exceptional academic results and available economic resources.