

EDUCATION

Universidad de los Andes - Bogotá Colombia

- B.S Systems and Computing Engineering
- Intended Grad: June 2020

GPA: 4.5/5

Relevant Coursework:

Algorithms Design and Analysis, Data Structures, Algorithmic and Object Oriented Programming, Structural Mathematics and Logic, Software Architecture and Design, Programming with Web Technologies, Construction of Mobile Applications, Agile Methodologies

WORK EXPERIENCE

Universidad de los Andes - Research Assistant

January 2020 - Present

- Research assistant on the curriculum migration from Java to Python for the introductory programming courses. Responsible for managing the student help center, grading, and developing workshops for the courses. Approximately 900 students are currently taking this course.

Skills gained: Java, Python, Pandas, Teaching

Universidad de los Andes - Teacher Assistant

Jan 2019 - Dec 2019

- Teaching Assistant focused on producing teaching material for students, and general redesigning of the *Software Architecture and Design* course. Approximately 75 students take this course each semester.
- Accomplished a 6% improvement in student satisfaction, as measured in the surveys taken at the end of the semester, by doing video explanations of course related topics, and technology tutorials.

Skills gained: Software Architecture, Python, Django, Effective Communication

PROJECTS

Blockchain based Medicine Traceability System - Bachelor Thesis

Present

- Currently designing a reference architecture for supply chain traceability with blockchain based systems.
- Currently developing a working prototype for Colsanitas (Biggest Colombian health company) which tracks the transportation of cancer medicines through the supply chain by using web technologies.

December 2019

Chat Center - Whatsapp chatbot with human interaction

Fall 2019

- Designed and Developed an app that uses Whatsapp as its main communication tool.
- Users can interact with a chatbot or an employee that will respond to their needs. Employees interact with the users through a web chat that seamlessly integrates with the ongoing WhatsApp conversation.

Pharmaco - Mobile app for pharmacy logistics

Fall 2018

- Developed a Kotlin app that aims to speed up the delivery of medicines in pharmacies of Colombia.
- The app uses: QR codes, image to text recognition, and GPS to improve delivery logistics.

NIDOO - Software Architecture Design Proposal

- Developed a software architectural design for a Colombian startup that provides parking lot services to their clients. Their main difficulty was to implement an on-demand service of parking lot reservation.
- The design used the architectural styles publish/subscribe, and microservices to improve the systems latency, security and maintainability.

AWARDS AND RECOGNITIONS

Third Place - Zoothackathon Colombia

November 2019

- The Zoothackathon Colombia was organized by the US Embassy and Amazon Web Services.
- The challenge was to develop technological tools to mitigate and control illegal timber traffic.
- The proposed solution was a blockchain based system, that tracks wood through the whole industrial process, by using complementary technologies, such as SMS messages, mobile apps, QR codes and GPS.

First Place - Carvajal's Hackathon

October 2019

- Winner in the challenge proposed by the Colombian Agrarian Bank.
- The challenge was to find technology based strategies to include farmers in the banking industry.
- The proposed solution was a BI web tool that formed clusters between farmers for them to conform associations among them, and become more competitive in the market.

TECHNICAL SKILLS

- Java (3 yrs), JavaScript (1 yr), Node JS (1 yr), Python (1 yr), Django (1 yr), React (1 yr), Git (2 yrs),
Kotlin (6 months), HTML (1 yr), CSS (1yr), SQL (1 yr), Mongo (6 months), Firebase (6 months),
GraphQL (3 months), Heroku (6 months), AWS (3 months), UML(3 yrs), MDE (6 months)

SPOKEN LANGUGES

- Spanish (Native)
- English (Fluent)