Andres Felipe Moya Rodriguez

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EDUCATION

Universidad Nacional de Colombia Graduating in March 2022
Computer engineering *GPA 4.5/5.0*

Universidad Nacional de Colombia Graduating in March 2024
Computer science *GPA 4.6/5.0*

MAJOR PROJECTS

GeoSmart (Group project)
September – November 2020

An application with both mobile (Android) and web versions where users can learn geography playing different types of trivia. Made for the Software Architecture class at Universidad Nacional de Colombia.

- Developed Mobile app using Java in the Android Studio IDE.
- Backend built following microservice architecture, using eight different web frameworks.
- Developed a microservice that was in charge of handling all geographical information using ASP.NET.
- Designed and created one of the system´s databases using SQL Server.
- Used Google's Maps SKD for android API for map support.
- Deployed using Amazon Web Services.

Ad Hoc network (Group project)
October – November 2020

A hierarchical cluster based ad hoc network simulation, where the percentage of lost packets is optimized using reinforced learning. Made for the Stochastic Models class at Universidad Nacional de Colombia.

- Developed using NS-3 (C++) integrated with OpenAI Gym (python 3) for Ubuntu 18.04.
- Network's architecture consists of three clusters in two levels of hierarchy.
- Users can visualize the simulation thanks to a python tool integrated to ns3.

LyT app (Group project)
August 2020

Mobile application for android, developed for a Colombian business that offers bike courier services called "Liebre y Tortuga Mensajería S.A.S". Users can use the app to request the collection and delivery of a small package.

- Developed Mobile app using Java in the Android Studio IDE.
- Used Google's Maps SKD for android API for map support.
- Used Google's Places API for place auto completion.
- Used Google's Distance Matrix API to calculate walking distance between two places.

UN-Acarreo (Group project)
March – July 2020

A web application where users can schedule and rate haulages and drivers are notified when and where a haulage has been assigned to them. Made for the Software engineering II class at Universidad Nacional de Colombia.

- Developed Back-End using Express.js.
- Designed and created system´s database using PostgreSQL.

SKILLS

PROGRAMMING LANGUAGES

8 years:	Java
5 years:	C++
2 years:	Python, C, Matlab
1 year:	javascript
6 months:	C#

AWARDS

Best GPAs of the semester at Universidad Nacional de Colombia 2016-I.

- Distinction given by the university to the 15 students with best GPA of each curricular program per semester.
- Monetary incentive covering 100% of tuition fees for next semester.

OTHER SKILLS

Experience in data base design.
Basic digital electronics skills (circuit design and breadboard use).
Basic knowledge of Linux command shell.
Theoretical and practical knowledge in programming language grammars

TECHNOLOGIES

Git, Power Designer, Android Studio, Balsamiq Mockups, Visual Paradigm, Cisco Packet Tracer, Google maps API, node.js, Express.js, MySQL, PostgreSQL, SQL Server, NS-3, ASP.NET .

ONLINE COURSES

Deep Learning – Specialized program (deeplearning.ai) 2020-2021
Machine Learning (Standford) 2020

SPOKEN LANGUAGES

Spanish (Native), English (Intermediate), Portuguese (Basic).