Edgar Andrés Margffoy Tuay

andfoy ✉ andfoy@gmail.com ✉ ea.margffoy10@uniandes.edu.co

Personal Information:

Nationality:
Colombian

Location:
Bogotá, D.C

February 22
Birthday:
02/22/1996

Habilities:

Languages Spoken: Spanish (Native), English, French (B2)
Programming Languages: Python, Java, MATLAB, C/C++, Javascript, Erlang, Scala, Bash
Markup Languages: CSS, HTML, Markdown, LaTeX
Technologies: Linux, Arduino, git, PostgreSQL, Oracle, OpenCV, Numpy/Scipy, Matplotlib, RabbitMQ

Academic Formation:

January 2014 - Present
Universidad de los Andes
Systems and Computing Engineering, BSc

GPA: 4.25 / 5.0 **Exp Grad Date:** 30/03/2018

Work Experience:

December 2016 - May 2017
Continuum Analytics
Spyder IDE Development:
Issues Fix/Improvements

Academic Experience:

Junior Research Assistant:
Astronomical image processing from large all-sky photometric surveys for the detection and measurement of transients (Jan 2017 - May 2017)
I helped to implement and test a Machine Learning approach to the detection of transient celestial bodies as part of a PhD proposal by Juan Pablo Reyes, which is going to be part of the Software stack to be used by the researchers at the Large Synoptic Survey Telescope (LSST).

Teaching Assistant:
Transactional Systems/Databases (Jan 2016 - Dec 2016)
I was on charge of the implementation of a Java/Python REST Webserver skeleton that could retrieve and modify local/remote DB entries using SQL, the remote process was accomplished by employing RabbitMQ

Teaching Assistant:
Design and Analysis of Algorithms (Jan 2016 - Dec 2016)
I was on charge of giving test and exams preparations, along to general Q&A sessions with the course students

Teaching Assistant:
Data Structures (Jul 2015 - Dec 2015)
Syllabus reform participation: Design and implementation of workshops to serve this purpose

Personal projects and ventures

Personalized Medicine:
TIMed (2016-Present)
This award-winning system allows to recommend the drugs and prescriptions best suited to patients who suffer chronic arthritis based on their medical history along with laboratory tests. The project was winner of a 700USD grant given by ElConcurso innovation contest at the University of Los Andes
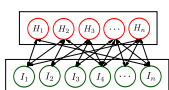
Compiler Design:
HCL (2016-Present)
Python-based implementation of a compiler for Dijkstra's Guarded Command Language (GCL).

Computer Vision:
ComprVis (2014)
Store Point-of-Sale based on client facial recognition to restore discount points.

Competitive Programming:
ICPC Latin American North Regionals (2016)
Along with my team, we managed to get to the 9th overall position among 50 teams.
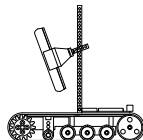
Robotics:
Self Driving Tank (2013)
Self-driving vehicle based on image processing and Feed-Forward NNs

Online Courses:
Neural Networks for Machine Learning
Non-credit course offered by the University of Toronto and taught by Geoffrey Hinton through Coursera.

Online Courses:
Machine Learning
Non-credit course offered by Stanford and taught by Andrew Ng through Coursera.