Marcelo Sandoval-Castañeda

✉ marcelo.sc@nyu.edu
○ github.com/mudtriangle
in linkedin.com/in/marcelo-sc

EDUCATION

New York University Abu Dhabi
Abu Dhabi, UAE
BS in Computer Science
BA in Film and New Media
Minor in Applied Mathematics
Sep 2016 - May 2020
Cum. GPA: 3.83

New York University
New York, USA
Study Away
Jan 2018 - Dec 2018

United World College Costa Rica
San Jose, Costa Rica
International Baccalaureate
Sept 2014 - May 2016

SKILLS

Languages:
Python, C/C++, Javascript
Frameworks:
Flask, Django, Node.js
Databases:
SQL, Mongo
Tools:
Docker, Git, Vim
Adobe Creative Suite

COURSEWORK

Data Structures
Algorithms
Computer Systems Organization
Operating Systems
Computer Networks
Software Engineering
Artificial Intelligence
Machine Learning

ACTIVITIES

Student Government CS Rep

UNIX Lab Peer Tutor

The Gazelle (Student Newspaper)
Developer Team

EXPERIENCE

Cognitiva Peru   Jun 2019 – Present
Cognitive Solutions Expert   Lima, Peru and Abu Dhabi, UAE (Remotely)
- Developed a neural network for classification of Alicorp's customers that improved their previous model's time efficiency by approximately 40%, while also increasing accuracy from 82% to 98%.
- Developed an API that uses Computer Vision and Natural Language Understanding to evaluate the sentiment of newspaper articles to automate PR tasks with an accuracy of 79%.

BAC Credomatic   May 2018 – Aug 2018
Data Scientist Intern   San Jose, Costa Rica
- Designed a client retention machine learning-based project for the Commercial Management office that resulted in estimated 1.2 million USD per month in prevented losses.
- Developed a neural network that predicts whether a client will attempt to cancel their accounts within the next month with 90% accuracy.

GMD   Jun 2016 – Aug 2016
Programmer   Lima, Peru
- Wrote documentation and conducted testing for Facilito, an Android and iOS app ranked among the top 5 Peruvian mobile apps (Toulouse Lautrec Institute).
- Constructed and documented spreadsheets and algorithms using VBA for the Energy and Mining Investment Supervising Organization (Osinergmin), using data to predict and set oil prices all around Peru.

PROJECTS

Undergraduate Thesis
In progress
A set of tools including shot identification, scene to video matching, media synchronization, and character recognition for the Film post-production process. Under the supervision of Dr. Dennis Shasha, Dr. Godfried Toussaint, and Prof. Scandar Copti.

Diet Optimizer
A web application that provides users with more than 10,000 recipes and products that match their financial and dietary needs using linear programming. Built with Python and Django under the supervision of Dr. Dennis Shasha (NYU New York - Courant).

Filariasis Detection in Maquisapa Monkeys
Presented at the International Primatology Association Congress
Machine learning project aimed at the detection of filariasis with 78% accuracy in 100 rescued maquisapa monkeys in the Amazon, using easily observable data for preliminary diagnoses with limited resources. Built for the Taricaya Rescue Center and the Scientific University of the South.