Jerónimo Aranda Barois

jeroaranda@gmail.com
https://jeroaranda.github.io
+52 1 55 51565749

EDUCATION

Instituto Tecnológico Autónomo de México [ITAM](double degree)
Applied mathematics.
Computer engineering.
Expected Graduation Date: December 2019
Currently doing thesis on *liquid brains* and last courses.
Grade Point Average: 8.8 out of 10 (GPA 3.52)
Spanish and French (native), English (advanced-C1, IELTS and CAE).

Australian National University [ANU]
Exchange student for 6 months. Courses in computer vision, artificial intelligence, dynamic   systems and statistical inference.

WORK EXPERIENCE

06/19-07/19   **Morgan Stanley Capital International inc.**
Summer research intern working with a CNN NLP model, I did some performance tests and product development around the model.

02/19-4/19   **Project collaboration with OpenBlender**
Developing jupyter-notebook usecases for OpenbBlender. (Recomender system and NLP price predictor.)

07/18-12/18   **ITAM robotics lab**
Research assistant
Working with a driverless car, optimizing trajectories for collision avoidance and maximum performance.

Summer of 2018   **Cherry picker**
Did 2 months of piece work cherry picking in the Canadian outback near Vancouver.

03/17 -5/17   **Food delivery bike rider at Deliveroo**
Delivered food bike riding in the Australian capital of Canberra.

DEVELOPED PROJECTS

Fall 2019   **Cara a Cara:** Facial recognition installation that shows the Mexican missing person that most resembles you from a 2500 image database we scrapped, among other interesting statistics and a VR experience. Developed in Flask and Python as social work at DataLabITAM.

Summer of 2019   **COSAbot:** Image processing bot in twitter. Scrapes images, or receives them as a twit, then filters them with visually appealing mathematical transformations and reposts them. Twit him something.

02/17-to date   **Image processing tools:** Implemented some basic tools for color palette extraction with k-means algorithm and developed a tool to cut panoramic images for better Instagram visualization. Clone the notebook.

03/18-05/18   **Leather shoes:** Bought some leather an did some pairs of simple functional leather shoes.

TECHNICAL SKILLS

Programming Languages:
- Python (Numpy, pandas, scikitlearn, opencv, I love jupyter notebooks!)
- Java (advanced)
- Matlab (advanced)
- C++ (intermediate)

Mathematics and computing:
- Optimization and modelling
- Statistics
- Fluid dynamics
- Interested in information processing (NLP, CV and AI).

AWARDS AND LEADERSHIP

- "Beca Generación Bicentenario" High Academic Achievement Scholarship honoring the 200 Mexico national anniversary, Nacional Monte de Piedad, 2010.
- Contestant at ACM-ICPC Mexico & Central America regional tournament, which was held at Guadalajara, Mexico, 2015
- Published an article on Image processing with Python on a friends website.
- 90% Merit Based Scholarship, ITAM, 2014
- Member of the ITAM Applied Mathematics student association, 2015.
- Triathlon contestant in the Mexico National Olympiads, Veracruz, 2014.
- Half IronMan(triathlon) and half marathoner.