

# ALEJANDRO EZEQUIEL MAZZEO

## Software developer

@ ale.exactas@gmail.com    ☎ +54 1159553542    📍 Ituzaingo, Buenos Aires  
in alejandro-mazzeo    🌐 alemazzeo



Advanced degree student of Physics at Universidad de Buenos Aires. Programming since age 10. Web for the front-end, C and CUDA for high performance, Python for everything. I like the neat repository, the documented code, and the up-to-date tests. Electronics and mechanical workshop as inherited hobbies. High Performance Computing and Artificial Intelligence as acquired hobbies.

## EXPERIENCE

### Data Scientist - Python developer

#### NINJA Consultora

📅 May 2020 – Current

- Software development for Natural Language Processing experimentation (Python + TensorFlow + Spacy)
- GitHub repository management
- Design and development of web interface for text labeling

### Software developer and Optical Technician

#### IFIBA + Y-TEC

📅 Jan 2019 – Current

- Design and manufacture of a Fourier Ptychography Microscope (FPM)
- Drivers and interfaces development for acquisition (Electronic design, Ctypes, PySerial, C++, Flask, JavaScript and Bootstrap)
- Annotator software development with TypeScript (W2UI + OpenSeaDragon + PaperJS)

### Python + CUDA developer

#### Instituto de Ingeniería Biomédica - UBA

📅 Mar 2018 – Apr 2021

- Python design and development of a genetic algorithm engine
- Use of Mapping Texture Unit of GPU for deconvolution acceleration
- Parallelization through multiple GPUs

### Python + Computer vision + CUDA developer

#### AgrX

📅 Oct 2019 – May 2020

- Preprocessing of data using Computer Vision over a Nvidia Jetson Nano
- Development of a filter cascade in CUDA with a Python Interface (CTypes)
- Neuronal Network Processing
- Remote service attention with SSH over measurement equipment deployed

### Technical Assistance

#### IFIBA + Satellogic

📅 Oct 2019 – May 2020

- Lens characterization for a Star Tracker System
- Software and hardware development (Python, Arduino, PAP, Optical Designs)

## SKILLS

Python   C   C++   CUDA

TypeScript   JavaScript

TensorFlow   Keras   Docker

Node.js   Flask   Django

SQLAlchemy   Bootstrap

Jetson   Raspberry   Arduino

Autocad   SolidWorks

## LANGUAGES

Spanish (Native)

Professional English

## EDUCATION

- Physical Degree

**Universidad de Buenos Aires**

📅 2012 – Current

- ElectroMechanical Technician

**Instituto San Antonio de Padua**

📅 2005 – 2010

## TEACHING

- Assistant Teacher

**Universidad de Buenos Aires**

📅 2020 – 2021

## PORTFOLIO

<https://alemazzeo.github.io/>