ALEJANDRO EZEQUIEL MAZZEO

Software developer

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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

- Physics 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/`