Facundo Emmanuel Messulam

Rosario, Santa Fe – Argentina

Age: 23 years old | DNI: 41.904.205

🌐 http://emmanuelmessulam.com.ar ✉ emmanuelbendavid@gmail.com

 EmmanuelMess 📱 +54 341 541 8152

Kaggle: EmmanuelMess

STUDIES

Colegio San Bartolomé (Colegio Inglés de Rosario)   **Graduated: 2011**

Instituto Politécnico Superior   **Graduated: 2018**

Facultad de Ciencias Exactas, Ingeniería y Agricultura   **Advanced (4 of 5 years)**
Licenciatura en Ciencias de la Computación

EXPERIENCE

MangooDev
Full Stack Developer   *Apr 2018 - Aug 2018*
- Design and creation of a web app with JHipster framework
- Backend Spring (Java)
- Working in a team with around five people

MangooDev
Front End and (afterwards) Full Stack   *Dic 2019 - Feb 2020*
- Development of front end of a web app with PHP
- Web app migration from PHP to JHipster, with complete database migration to entities system
- Backend Spring (Java)
- Team work with two people coordinating tasks
- Helped a team mate learn object oriented programming

Plantium
Researcher of artificial intelligence on plants   *Sep 2021 - Present*
- Caffe, with DIGITS, TensorFlow 2, OpenCV
- Work on autonomous robot with ROS (Robot Operating System)
- Investigative work over a big number of tools to find a solution which works best for a specific problem (like labeling specific datasets)
- Creation of prototypes using Jupyter notebooks and C++
- Work on embedded systems Nvidia Jetson, with the Nvidia Jetpack suite, on ARM architecture focused on inference
- Coordinated work with experts in several fields: agronomic engineers, electronic engineers, mechanical engineers, among others

PROJECTS

Paper Detector   *2021*

   link: `https://github.com/EmmanuelMess/Detect-Papers`

- Open source, available on GitHub
- Made with C++ and OpenCV
- Algorithmically process all 3 channels independently

Synthetic Image Renderer   *2021*

   link: `https://github.com/EmmanuelMess/SyntheticImageRenderer`

- Open source, available on GitHub
- Made with C++, Ogre and OpenCV
- Renders a 3D scene with programmatic randomization
- Allows changing background of result to another image

EMNIST classification with Keras   *2021*

   link: `https://www.kaggle.com/emmanuelmess/using-mnist-model-for-emnist-89-w-keras`

- Open source, available on Kaggle
- Created with Python/Jupyter notebooks
- Data augmentation with transformations
- Correct classification of 89.6% of images

ADICIONAL

- Fluent in English (C2 level)
- Studing Chinese
- Expierience working with CUDA and OpenCV
- Expirience with Caffe, Tensoflow (Keras) and some PyTorch
- Limited expirience with Qt
- Knowledge on data structures: trees, sequences, stack, queue, vector, etc
- Knowledge of costs: asymptotic cost, app profiling
- Knowledge of object oriented programming, imperative programming and functional programming
- Knowledge of neural nets, optimization algorithms theoretical knowledge
- Programming languages: Java, Kotlin, Python, C, C++, PHP, HTML/CSS, Javascript, assembly (WASM, MIPS)