Francisco Tobar

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Coding

C/C++ • Python • Ruby • R • Bash • SQL • JavaScript • PHP • HTML5

Libraries/Frameworks

Ruby on Rails • Django • TensorFlow • PyTorch • Scikit-learn • Pandas

IT Operations

GNU/Linux • Apache •Nginx • PostgreSQL• MariaDB

RELEVANT EXPERIENCE

Dlogistic, Valparaíso, Chile - *Software Development*

Mar 2018 - Jun 2018

- Developed and deployed a RoR web application for internal package/delivery men matching using smartphones as barcode scanners that reduced the daily package assignment process from 1-2 hrs to 30 min.

U-Planner, Valparaíso, Chile - *Data Science Intern*

Jan 2018 - Jan 2018

- Developed machine learning algorithm in Python with scikit-learn for course enrollment prediction in educational institutions providing a competitive and quicker option to the previous forecast algorithm.

GeoInnova, Santiago, Chile *-Data Science Intern*

Mar 2018 - Jun 2018

- Implemented of a quick K-neighbours algorithm for high dimension in C++
- Designed an efficient pipeline between Cuda DLLs and Electron Framework.

RESEARCH

Multi-OctConv: Reducing Memory Requirements in Image Generative Adversarial Networks - *Francisco Tobar,* claudio Torres, 2020 39th International Conference of the Chilean Computer Science Society (SCCC)

Mar 2018 - Present

- Developed a modified convolutional layer in PyTorch that replaced the traditional convolutions reducing the memory usage on Generative Adversarial networks up to 40% without affecting the quality of the generated image.

EDUCATION

Mar 2017 - Present **Master Degree in Computer Engineering**
Universidad Técnica Federico Santa María, Valparaíso, Chile

Mar 2013 - Aug 2019 **Bachelor Degree in informatics Engineering**
Universidad Técnica Federico Santa María, Valparaíso, Chile