

Francisco Tobar

Computer Science Engineer

Valparaíso, Chile

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🌐 ftobarm.github.io

Skills

Coding C/C++, Python, Ruby, Bash, SQL.

Machine Learning & Data Science TensorFlow, PyTorch, Pandas, Scikit-learn, R.

Software Development Ruby On Rails, Django, HTML5, JavaScript, Git, PHP.

IT Operations GNU/Linux, Apache, Nginx, MariaDB, PostgreSQL, PHP.

Research

Mar 2018-ongoing **Overcoming the memory limitations in Image Generating GANs**,
Advisor: Claudio Torres.

Research focused in reducing the computational cost of training image generating GANs without sacrificing the quality of results through multi-frequency separations of feature maps, achieving a reduction of approximately 30% of memory usage without affecting the quality of the results. <https://github.com/ftobarm/tob-GAN>

Work Experience

Mar 2018 Jun 2018 **Software Development**, *Dlogistic*, Valparaíso.

Package management web application for delivery using smartphone as barcode readers to assign packages to different drivers.

Mar 2017 to Nov 2017 **Software Development**, *Zoome*, Valparaíso.

AI based software for image capturing with lights automatization and edition of photos for e-commerce. Project Webpage: <https://www.facebook.com/76Zoome/>

Jan 2017 to Feb 2017 **Data Scientist**, *U-Planner*, Valparaíso, Internship.

Development of a Machine Learning algorithm for course enrollment prediction for educational institutions.

Jan 2016 to Feb 2016 **Data Scientist**, *Geoinova*, Santiago, Internship.

Development of a quick implementation of K-neighbors in high dimension and implementation of communication between Cuda DLLs and Electron Framework

Education

2017-current **Universidad Técnica Federico Santa María**,
Msc. in Computer Engineering.

Valparaíso, Chile,

2013-2019 **Universidad Técnica Federico Santa María**,
Bsc. and Professional degree in Informatics Engineering.

Valparaíso, Chile,

Languages

Spanish **Native**
English **Advanced**

TOEIC Score 915

Teaching Assistant

- 2018 **Computer Networks**, 1 semester, UTFSM.
- 2016-2018 **Operating Systems**, 3 semesters, UTFSM.
- 2017 **Computational Statistics**, 1 semester, UTFSM.
- 2016 **Algorithms and Complexity** , 1 semester, UTFSM.
- 2016-2017 **Computer Architecture**, 2 semesters, UTFSM.
- 2016 **Discrete mathematics**, 1 semester, UTFSM.
- 2014 **Computer programming**, 1 semeste, UTFSM.