ConstanzaFierro

Mail: constanza.fierro94@gmail.com
Phone: (+33) 651 900 428
Website: cfierro94.github.io

EDUCATION

UNIVERSITY OF CHILE
Computer Science Engineer
(Engineering Diploma)
Completed Jul 2019

Cum. Grade: 6.5/7.0 (GPA 4)
Years of studies: 6

ECOLE CENTRALE MARSEILLE
Exchange
Jul 2015 - Jul 2016 | France
General Engineering

COURSEWORK

Algorithms and Theory
Probabilities and Statistics
Computational Intelligence
Data Mining:

- Participation on Santander Kaggle competition (1349th/1787). Carried complete knowledge discovery process.

Probabilistic Robotics

- Development of an exploration algorithm. Frontier-based inspired using Visual SLAM. (ROS, C++)

Linear Algebra
Multivariate calculus
Software Engineering
Programming Languages
Operating Systems
Databases

SKILLS

PROGRAMMING
Advanced:
Python • C++ • Java
Intermediate:
Pytorch • Tensorflow • SQL
Matlab • CSS/HTML • Bash
Familiar:
Assembly • R

LANGUAGE
Spanish: Native
English: Fluent
French: Excellent command

OTHER HOBBIES

Former handball player at university
Active member of Women at Google
Active member of HOLA community at Google

EXPERIENCE

GOOGLE | Software Engineering (Youtube Classification)
Oct 2019 – Present | Paris, France

- Part of the team developing Youtube classification platform for training, evaluating and governing classifiers.
- In charge of building and serving 3 different binary classification models for videos.
- Developed multiple evaluation analysis for our classifiers.
- Developed weighted and importance random sampling scripts.
- Designed and implemented pipelines for automatic sampling, human labeling, training, and evaluation of classifiers.

FACEBOOK | Software Engineering Intern (IG Growth Ranking)
Jan 2019 – Mar 2019 | Menlo Park, California

- Added cached behaviour for server failures. Used A/B testing to experiment.
- Implemented counters and throttling for clients of the ranking server.
- Migrated features extraction to a general Facebook features store.
- Designed general framework for features extraction from different sources.

GOOGLE | Software Engineering Intern (Search Core Team)
Jan 2018 – Apr 2018 | Mountain View, California

- Worked in anomaly detection on time series using Bayesian DLM.
- Improved the signal by incorporating cycles of different lengths to the model.
- Improved memory usage on the signal calculation.
- Trained and compared Tensorflow models with/without the new signal.

RESEARCH

ENGINEERING THESIS | Paper at ICLR 2020 (AI4AH Workshop)
Predicting Unplanned Readmissions with Highly Unstructured Data

- Proposed and developed a deep learning architecture for predicting inpatient readmission.
- Used 10 years of data from a Chilean clinic that contained mainly free text.
- Obtained results comparable to the state of the art in the task.

UNDERGRAD RESEARCH | Paper at EMNLP 2017 (Argument Mining Workshop)
200K+ Crowdsourced Political Arguments for a New Chilean Constitution

- Compared manual tagging of text classification tasks with linear and neural network models.
- In charge of the development of the deep neural network (Deep Averaging Network).

OTHER PROJECTS

Development of App Web for Science Fair

- Designed and developed algorithm to manage tours creation. (Considering: location, availability, duration, group size, etc.)

Volunteering

- Grace Hopper 2020 scholarship reviewer.
- ICLR 2020 volunteer: dry run the online platform and assist attendees.
- Venkat Panchapakesan Google 2019 scholarship reviewer.

AWARDS

Year	Type	Description
2019	Grade	Maximum distinction grade in the Engineering Diploma
2013-2018	Grade	Dean's list
2017	Fellow	Latin-American AI Summer School (EVIC)
2015	11nd/450	Ascenci Dev Cup (France) Finalist
2012	2nd/90	High School Graduation position
2012	4th/14	Robotics "Mine challenge" Universidad del Desarrollo