Constanza Fierro

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EDUCATION

UNIVERSITY OF CHILE
COMPUTER SCIENCE ENGINEER (ENGINEERING DIPLOMA)
Completed Jul 2019

Cum. Grade: 6.5/7.0 (GPA 4)
Dean's List (All Semesters)
Years of studies: 6

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

COURSEWORK

Algorithms and Theory
Probabilities and Statistics
Machine Learning
Data Mining:
- Participation on Santander Kaggle competition (1349th/1787). Complete knowledge discovery process made. (Python, R)

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

Software Engineering
Programming Languages
Operating Systems
Networks
Databases

SKILLS

PROGRAMMING
Over 5000 lines:
Python • C • Java
Over 1000 lines:
C++ • Tensorflow • Matlab
MySQL • CSS/HTML • Scheme
Familiar:
Assembly • Bash • 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 2 different binary classification models for videos.

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 stores.

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 unplanned readmissions.
- Trained and tested the model in 10 years of historical data from a Chilean clinic.
- Obtained results that are comparable to the state of the art in this task.

UNDERGRAD RESEARCH | PAPER AT EMNLP 2017 (ARGUMENT MINING WORKSHOP)
200K+ Crowdsourced Political Arguments for a New Chilean Constitution
- Worked with Prof Jorge Pérez and Mauricio Quezada on natural language classification tasks. (Python, Keras)
- Developed Deep Averaging Networks to classify political opinions.

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.

ENCOURAGING WOMEN
- Founded non profit organization: "Niñas PRO".
- Created and participated in programming course for women students.

AWARDS

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