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)
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 • Bash
Familiar:
Assembly • R • CSS/HTML

LANGUAGE
Spanish: Native
English: Fluent
French: Excellent command

OTHER HOBBIES

Handball player and occasional runner
Active member of Women at Google
Psychology and neuroscience enthusiast

EXPERIENCE

GOOGLE | SOFTWARE ENGINEER (YOUTUBE VIDEO 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.
- Designed and implemented pipelines for automatic sampling, human labeling, training, and evaluation of classifiers.
- Developed weighted and importance random sampling.

  20% GOOGLE BRAIN SUMMARIZATION TEAM
- Defined and presented the state of the art for the data-to-text task.
- Open sourced 10 datasets with TFDS to be able to evaluate in all of them.

FACEBOOK | SOFTWARE ENGINEER 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 ENGINEER 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 model 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.
- Presented the paper as it was selected for oral talk (link).

UNDERGRAD RESEARCH | PAPER AT EMNLP 2017 (ARGUMENT MINING WORKSHOP)
200K+ Crowdsourced Political Arguments for a New Chilean Constitution

- Compared manual text classification to 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

2019	Honors	Graduated with the highest academic distinction
2013-2018	Honors	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