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Education

Msc, Computer Science and Engineering (Expected)

- *Master in Innovation and Research in Informatics*, with specialization in Data Science (MIRI-DS) at **Universidad Politécnica de Catalunya (UPC)**, Barcelona.
- From September 2019 to September 2021.

Big Data Diploma

- A postgraduate Diploma (144 hrs) on Big Data at the **Pontificia Universidad Católica de Chile (PUC)**, Santiago, Chile.
- During the second half of 2017.

Bsc, Electrical Engineering

BSc in Electrical Engineering (Six years degree), with specialization in Power Systems at **Universidad de la Frontera (UFRO)** in Temuco, Chile,

- Final grade 6.2 of 7.0
- Final project on *"Digital Substation: State of the art technologies and development of test modules using ABB devices"*
- From March 2008 to March 2016.

Academic Exchange

- Academic exchange in the **Ruhr-Universität Bochum (RUB)** at Bochum (NRW), Germany.
- Thanks to a scholarship granted by the German Academic Exchange Service (DAAD)
- From August 2014 to August 2015.

Work Experience

Software and Data Engineer at CIAE, Universidad de Chile (Current position)

- From November 2017 to August 2019 (~1.5 years).
- Backend python developer and data engineer, with experience in public and private research projects related to education and social development.
- Developed extensible python ETL pipelines for cleaning and validating data obtained from the public sector in Chile.
- Participated as a teacher assistant in a training course on *"Data Science and Public Analytics"* for people of the *Chilean Department of Social Development* (English for *Ministerio de Desarrollo Social*)
- Developing currently a web platform to manage visualizations related to the Public Education Sector in Chile, using Flask, Docker and create-react-app

Read more about the *Advanced Education Research Center* (english for *Centro Avanzado de Investigación en Educación de la Universidad de Chile*) in www.ciae.uchile.cl (spanish)

Project Engineer at ABB Chile

- From June 2015 to June 2017 (two years)
- Substation Control, Protection and Automation Engineer in the *Power Grids - Grid Automation* division
- Acted as a technical lead in +10 substation automation projects ranging from simple to mid complexity across Chile.
- Develop project schedules under constraints, interacting with all the units involved.
- Provided technical assistance to the Supply Chain and the Contract Management areas.
- Acted as a technical specialist of the ABB's Digital Substations and IEC 61850 portfolio in Chile, supporting sales and performing as a speaker in conferences and training courses.
- Led projects that required delegating tasks and managing small teams from other countries within ABB.

Read more about ABB in www.abb.cl

Tools, Skills and Programming Languages

- I'm comfortable using Debian based Linux distros.
- I'm proficient with **Python 3**. I have experience using the following packages (beware that this list is not exhaustive):

  - `Flask`
  - `SQLAlchemy`
  - `Alembic`
  - `Click`
  - `pytest`
  - `pandas`
  - `numpy`
  - `scikit-learn`

  You can check my results from a PluralSight python assessment I took in 2017, which is on my StackOverflow profile. I've improved since then.

- I'm fairly productive with **git**. You can check my LinkedIn assessment results.
- I have experience deploying small applications on **Azure** VMs and **Amazon** EC2.
- I try to use **Docker** and **PostgreSQL** in my projects.
- I have experience (and I like) **teaching**.

Human languages

- Spanish (Native)
- English C1 (IELTS Academic certification, 2018)
- German B2/C1 (Test DaF certification, 2014)
- I'm also currently learning Catalá at the *Consorci per a la Normalització Lingüística* in Barcelona

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Professional preferences

I would like to contribute to solutions in one or more of these areas:

- Smart Grids and Smart Cities
- Networks and Distributed Applications
- Data Science for the Social Good
- Intelligence, as in *Artificial Intelligence*

I wish to get better at researching, and to develop an academic path. I will *gladly* consider positions that encourage this.

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