ANDREA COGNOLATO

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EDUCATION

Master of Data Science and Engineering, Politecnico di Torino　　　Sept. 2020 - Exp. July 2022
Relevant courses: Numerical optimization, **Machine learning and Deep learning**.

Bachelor of Computer Engineering, Politecnico di Torino　　　Sept. 2017 - July 2020
Graduated with 110/110 (Top 1% in my class), supported by a full scolarship.
Relevant courses: **Data Structures and Algorithms**, Computer Architecture, Networking.

WORK EXPERIENCE

Software Engineer, Uffizio.ch　　　March 2020 - Now
· Developed the frontend and backend for an eCommerce platform using **Haskell** and **PureScript**.
· Wrote design docs, collaborated with contractors, maintained legacy open-source libraries.
· Improved latency and reduced operating cost by refactoring parts of the main monolith to **AWS Lambda**.

Machine Learning Research Intern, Politecnico di Torino　　　October 2019 - March 2020
· Worked under prof. Elena Baralis on the LACE and X-PLAIN frameworks for explaining the predictions of black-box classifiers. This work was **published at SIGMOD20**.
· Developed and optimized scientific Python code improving running time by over 50%. Wrote a production-ready library from Jupyter notebooks and built an interactive web demo.

Freelance Software Engineer, Multiple Clients　　　September 2017 - 2019
· Worked in over 10 projects, achieving 'Top Rated' status on the Upwork marketplace.
· Wrote, using **JS, C++ and Rust**, web applications, cryptocurrency daemons, and backend services.

OTHER EXPERIENCES

Citadel Summer Invitational Datathon　　　July 2020
Our team quantified the effect of 2012 London Olympics on the Growth Boroughs' housing market using a statistical method called Synthetic Control.

BOSCH Mobility Hackathon　　　September 2018
Tasked with finding a solution for traffic, parking, multimodality, and accessibility issues for the city of Milano. Our team analiyzed the data and built a proof of concept of a car pooling service for children.

Blogging　　　(more at mrandri19.github.io/blog)
Wrote several posts for my blog which reached the front page of Hacker News. Some were read by more that 10,000 people and keep generating traffic years later.

Open Source　　　(more at github.com/mrandri19)
Wrote and shipped the GTK Linux backend for the Druid UI Framework.
Improved documentation, fixed bugs, and implemented multivariate polynomials for Surrogates.jl.

AWARDS

Young Talents Program (Politecnico di Torino)　　　September 2017 - 2020
Excellence program reserved to the top 3% of the students of each academic year.

1st place - Provincial Informatics Olympiad　　　Fall 2016