ANDREA COGNOLATO

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EDUCATION

Master of Data Science and Engineering, Politecnico di Torino — 2020 - Expected 2022

Bachelor of Computer Engineering, Politecnico di Torino — 2017 - 2020

One of Italy's top 5 universities. Graduated with 110/110 (Top 1% in my class).

WORK EXPERIENCE

Software Engineer, Uffizio.ch — March 2020 - Now

· Developed and deployed frontend and backend for an eCommerce platform using Haskell and PureScript.
· Wrote design docs, collaborated with contractors, maintained legacy open-source libraries.
· Refactored parts of the main monolith to AWS Lambda functions, improving latency and reducing operating costs.

Machine Learning Research Internship, 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. Studied the literature of Interpretable Artificial Intelligence.
· Developed and optimized scientific Python code, converting Jupyter notebooks to a production-ready library, which I have utilized to build an interactive web demo using Flask and React.

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 for a children car pooling service.

Blogging — (more at mrandri19.github.io/blog)

· Wrote several posts for my blog which reached the front page of Hacker News. Some of them 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 dedicated to the top 3% of the students of each academic year.

1st place - Provincial Informatics Olympiad 2016
Because of this victory I qualified for the national selections of the Olympiad.