ANDREA COGNOLATO

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EDUCATION

Master of Data Science and Engineering, Politecnico di Torino

Sept. 2020 - Exp. July 2022

Bachelor of Computer Engineering, Politecnico di Torino, Italy

Sept. 2017 - July 2020

Graduated with 110/110 (Top 1% in my class), supported by a full scolarship.

WORK EXPERIENCE

Software Engineer Intern, Optiver

July 2021 - August 2021

- · Optimized, tested, and deployed a batch processing job for the compliance tech team, reducing its runtime by 8x. To achieve this I wrote high-performance C++ and created Python bindings.
- · Gave technical and introductory presentations of my work, to my team and company-wide audiences.
- · Learned about financial markets, high frequency trading, market making, and option theory.

Software Engineering (part-time), 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.

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.

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.