




ALEXANDER MASCOLO

 <https://amascolo.github.io>


 alexander.mascolo@gmail.com

PROFILE Strong coding and analytical skills · 10+ years in academia, trading desks, and startups.


EXPERIENCE *Senior Research Engineer* 2025 – present
Blok Intelligence Inc. SAN FRANCISCO 

- Building agentic systems alongside behavioral scientists.
- Raised \$7.5M to accelerate software testing ( TechCrunch).


Research Engineer 2021 – 2023
Tably LONDON 


- Applied R&D for large-scale distributed stream processing.
- Implemented conflict-free replicated data types ( otto).


Software Engineer 2019 – 2020
Gyana LONDON 

- Greenfield development of high-performance analytics libraries.
- Raised \$3.9M to democratize data science ( TechCrunch).


Quantitative Developer 2015 – 2019
Macquarie Group LONDON 


- Responsible for live strategies and the backtesting engine.
- Desk role in Quantitative Investment Strategies ( QIS).
- Hired after off-cycle internship in Options Market Making.

EDUCATION *MSc (by Research) Computer Science* 2024 – 2025
University of Edinburgh EDINBURGH 




- Fully funded, systems research on compilers for data science.
- Open-sourced a query engine with code generation ( sdql).

BSc (Hons I) Computer Science 2011 – 2015
Australian National University CANBERRA 

- Thesis on theoretical computer science and microeconomics.
- National Merit Scholarship (top 0.35%), prize winner ( ANU).
- Taught classes on logic, formal methods, information theory.

Summer School in Logic and Formal Epistemology 2013
Carnegie Mellon University PITTSBURGH 

- Fully funded, seminars on statistical machine learning.

CODING Python  · Rust  · Scala  · C++ 

CITIZENSHIP  Australian  British  Italian ·  US E-3 visa holder ·  based in San Francisco.