








ALEXANDER MASCOLO




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PROFILE Strong coding and analytical skills · 10+ years at deep tech startups and trading desks.



CURRENT ROLE *Senior Research Engineer* 2025 – present
Blok Intelligence SAN FRANCISCO 


- Bridging the gap between research and engineering.
- Raised \$7.5M to accelerate software testing ·  **Blok**
- Currently building agentic systems and evaluations.


RESEARCH *M.S. Computer Science* 2024 – 2025
University of Edinburgh EDINBURGH 


- Industry-sponsored research on compilers for data science.
- Open-sourced a query engine with code generation ·  **sdql**
- Preprints on  [programming languages](#) and  [database systems](#).


PREVIOUS ROLES *Research Engineer* 2019 – 2023
Gyana & Tably LONDON 


- Applied R&D for large-scale distributed data processing.
- Raised \$3.9M to democratize data science ·  **Gyana**
- Developed high-performance analytics libraries ·  **otto**


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 *B.S. Computer Science* 2011 – 2015
Australian National University CANBERRA 

- Thesis on theoretical computer science and decision theory.
- National Merit Scholarship (top 0.35%), math prize ·  **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 ·  **CMU**

CODING Python  · Rust  · Scala  · C++ 

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