ALEXANDER MASCOLO

PROFILE	Strong coding and analytical skills \cdot 8+ years experience at startups and trading desks.	
CURRENT	MSc (by Research) Computer Science University of Edinburgh	2024 – 2025 EDINBURGH ₩
	• Fully funded, systems research on compilers for data science.	
	• Open-sourced a query engine with code generation (\bigcirc sdql).	
EXPERIENCE	Research Engineer Tably	2021 – 2023 London ₩
	• Applied R&D for large-scale distributed stream processing.	
	• Implemented conflict-free replicated data types ($\ensuremath{\square}$ otto).	
	Software Engineer	2019 - 2020
	Gyana	LONDON 🗰
	• Greenfield development of high-performance analytics libraries.	
	• Funding by top VC investors, including the founder of Twitter.	
	Quantitative Developer Macquarie Group	2017 − 2019 London ₩
	• Strategist role in Quantitative Investment Strategies (QIS).	LONDON
	• Coded up strategies and improved the backtesting engine.	
	Quantitative Developer Macquarie Group	2015 – 2016 Sydney 📟
	• Desk analytics role aligned with Options Market Making.	
	• Built visualisation tools to monitor trade execution latency.	
EDUCATION	BSc (Hons I) Computer Science Australian National University	2011 – 2015 Canberra 🗃
	• Interdisciplinary thesis on computer science and economic theory	r.
	• National Merit Scholar (top 0.35%), joint prize with mathematic	s.
	\bullet Teaching assistant for Logic, Formal Methods, Information Theory.	
	Summer School in Logic and Formal Epistemology Carnegie Mellon University	2013 Pittsburgh =
	• Fully funded, seminars on statistical machine learning.	
CODING	Python $\bullet \bullet \bullet \bullet \bullet$ · Rust $\bullet \bullet \bullet \circ \circ$ · Scala $\bullet \bullet \circ \circ \circ$ · C++ $\bullet \circ \circ \circ \circ$	
CITIZENSHIP	■ Australian 🏶 British 💵 Italian (triple) · eligible for == US E-3 visa (H-1B not required).	