

# Gabriele Morello

[Website](#) [Linkedin](#) [Github](#)

Born on the 26 November 1999 in Torino, Italy, based in Stockholm, Sweden

Contact me at gabrielemorello@protonmail.com

## PROFILE

Software engineer student with a strong passion for new technologies. My mindset is "Get Stuff Done" and I crave learning from every problem I tackle. I aim to work with big data and complex systems. I'm the person you ask to join your impossible project.

## WORK EXPERIENCE

Jun 2023 – Jun 2024	Research Assistant at KTH - Royal Institute of Technology	Stockholm, SE
	<ul style="list-style-type: none"><li>• Research Assistant in ASSERT the Theoretical Computer Science division,</li><li>• I developed a program for automatic program repair of Solidity code, enhancing smart contract development through large language models.</li></ul>	
Apr 2023 – Jun 2023	Research Assistant at RISE - Research Intitute of Sweden	Stockholm, SE
	<ul style="list-style-type: none"><li>• I contributed to the development of Portals—a groundbreaking framework that unifies the Distributed Dataflow Streaming Model and Actor Model with a focus on edge stateful serverless processing,</li><li>• I played a key role in porting Scala APIs to Javascript, enhancing the framework's adaptability for edge computing environments.</li></ul>	
Mar 2021 – Jun 2022	Software Engineer at CERN - European Organization for Nuclear Research	Geneva, CH
	<ul style="list-style-type: none"><li>• Developed a Quantum Key Distribution simulator based on BB84 in Python.</li><li>• I designed the platform backend with peer-to-peer and client-server architectures and</li><li>• I integrated it into federated learning frameworks (OpenFL, Flower) and into a medical data homomorphic encryption system.</li></ul>	

## EDUCATION

Aug 2022 – Present	MSc in Software Engineering of Distributed Systems KTH - Royal Institute of Technology, Stockholm, SE	Stockholm, SE
	<ul style="list-style-type: none"><li>• I focused on Data Science within the program's designated track.</li><li>• Anticipated thesis focuses on fine-tuning Large Language Models for synthesizing Solidity code in smart contract development.</li></ul>	
Sep 2018 – Jun 2022	BSc in Computer Engineering Politecnico di Torino, Torino, Italy	Torino, IT
	<ul style="list-style-type: none"><li>• Distinguished participant in the "Percorso Giovani Talenti" an excellence program recognizing the top 200 students across all courses.</li></ul>	

## EXTRA-CURRICULAR ACTIVITIES

Feb 2020 – Jun 2022	Student team member at Bit Polito	Torino, IT
	<ul style="list-style-type: none"><li>• Contributed to Bit Polito as part of the management and R&amp;D team. Implemented Schnorr signatures (BIP340) in Python. Organized events and contributed to the team podcast.</li></ul>	

## SKILL AND INTERESTS

One of my biggest passions is electronic music, and I've had the opportunity to perform live multiple times in self-organized events. Additionally, I have a keen interest in weightlifting and a deep appreciation for conceptual art. Some of my notable skills include: backend programming, data engineering, machine learning, smart contract development, quantum computing, research, Python, Scala, Java, JavaScript, cryptography, and data science.

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Geneva, CH

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Stockholm, SE

Torino, IT

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