

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

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

EXTRA-CURRICULAR ACTIVITIES

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

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.