

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

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| 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 Institute 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

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|---------------------|--|---------------|
| 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

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| 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.