

Amir Sasanfar

MSc Student in Quantum Engineering | BSc in Computer Engineering

Profile

As a computer engineering graduate, I thrive on solving complex problems. I possess a natural aptitude for learning quickly, allowing me to stay ahead of the curve and rapidly adapt to changing technologies. With a drive to excel, I'm eager to contribute to innovative projects and make a positive impact in the industry. Currently pursuing a Master's degree in Quantum Engineering, I am eager to leverage my diverse skill set in innovative projects.

Experience

Sept 2023 - Jan 2024 **Data Engineer - Internship** @Sparco – Volpiano, IT

- Developed and optimized ETL pipelines using AWS (S3, Lambda, Glue, QuickSight, Amazon Forecast).
- Designed and implemented scalable data architectures for processing large datasets.

Education

Oct 2023 - Present **Master's Degree in Quantum Engineering** @Politecnico di Torino – Turin, IT

Relevant Courses:

- Introduction to Quantum mechanics, Quantum Computing, Quantum Information, Quantum Hardware Design & Optimization, Quantum Cryptography, Quantum Metrology & Electronics, Quantum Networks, HPC.

Oct 2019 - Jul 2023 **Bachelor's Degree in Computer Engineering** @Politecnico di Torino – Turin, IT

Relevant Courses:

- Object-Oriented Programming, C Programming, Algorithms & Data Structures, Databases, Operating Systems, Computer Networks, Automatic Control, Signal Analysis, Mathematical Methods for Computer Science, Applied Electronics.


Extracurricular Activities

Nov 2024 - Present **Team Member** @QubiTO – Student Team


Oct 2023 **AI Engineering Professional Certificate**

Dec 2022 - Aug 2023 **Cryptography Team Member, Frontend Developer** @BitPolito – Student Team


Contact

 **Turin, Italy, 10138**

 **+39 351 657 69 09**

 **sasanfar.amir.99@gmail.com**

 **LinkedIn Profile**

 **GitHub Profile**

Technical Skills & Interests

Programming

- C
- Python
- Go
- SQL

Quantum Technologies

- Quantum Computing (Qiskit Framework)
- Quantum Machine Learning (Pennylane Framework)
- Quantum Communication (Netsquid Framework)


Other


- Linux & Bash
- Git
- MATLAB & Simulink
- Parallel Computing & HPC (OpenMP, MPI, CUDA, SLURM)
- Basic RISC-V Programming
- AWS Cloud Services

Soft Skills

Time Management, Problem Solving, Attention to Detail, Team Working

Languages

Fluent  **English** IELTS Score: 8.0

Fluent  **Italian** Full Proficiency