

# Sofia d'Atri

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## EDUCATION

**USI - Università della Svizzera Italiana** | Bachelor of Science in Computer Science Sep. 2021 - Present  
Lugano, Switzerland

- **Full tuition scholarship of merit** from the Foundation for the Lugano faculties of the Università della Svizzera italiana.

**Liceo Enrico Medi** | Scientific High School Diploma [github.com/cosmcif/esame-maturita](https://github.com/cosmcif/esame-maturita) Sep. 2016 - June 2021  
Villafranca VR, Italy

- Exam on "**Classic Cryptography and Quantum Computing - RSA vs Shor's algorithm**". Final grade: 100/100.

## EXPERIENCE

**Data Management and Workflow Automation** | Kellerhals Carrard | Lugano, Switzerland Dec. 2022 - Present

- Efficiently managed **databases**, implementing **relational models** and **SQL queries**.
- Designed and executed **automation pipelines** using Microsoft Power Automate, streamlining document creation, email drafting, and messaging processes.
- Provided **technical support** by troubleshooting issues and actively participating in testing phases for the selection of new company programs.

**Web Developer** | Futura Sistemi | Sommacampagna, Italy June 2019

- Designed and developed three **websites**, tailoring each to the unique needs of **diverse clients**.
- Identified and solved bugs in a pre-existing **authentication system**.

## PROJECTS

**Raytracer** [github.com/cosmcif/raytracer](https://github.com/cosmcif/raytracer) Dec. 2023

- Created a stochastic raytracer that won the 2023 Computer Graphics Rendering Competition.
- Features include Perlin noise textures, image texturing, optimization, custom obj loader.
- **C++**, **glm**, **OpenMP**, **Wavefront obj**, **Blender**, **Autodesk 3DS Max**

**JourneyTales** [gitlab.com/usi-si-oss/teaching/projects-showcase/sa4/team-4-pufferfish](https://gitlab.com/usi-si-oss/teaching/projects-showcase/sa4/team-4-pufferfish) Mar. 2023 - June 2023

- Full-stack developer in a 12 person team to create a travel social media web application.
- Developed a responsive application with OAuth2, friendship features, and real-time notifications.
- **Java Spring Boot**, **Vue**, **MongoDB**, **JUnit**

**HandShake** [github.com/ogs-at-usi/handshake](https://github.com/ogs-at-usi/handshake) Nov. 2022 - Dec. 2022

- Built an instant messaging web application in a group of 5 people with video calls, group chats and friends.
- Contributed to **backend** and **frontend** on features such as layout, stickers and led an **ad campaign**, including promo videos.
- **Vue**, **vuetify**, **node.js**, **express.js**, **MongoDB**, **web sockets**, **material design**, **mocha**, **MEVN stack**

## INVITED TALKS

**Quantum Computing Lectures and Conferences** Feb. 2022 - Mar. 2023

- "**Quantum: il futuro è già qui?**" conference, Liceo Enrico Medi, Villafranca VR (Mar. 9, 2023).
- **Introduction to Quantum Computing**, Liceo Marconi, Milano (Mar. 3, 2023): Theoretical lecture and programming labs.
- **Quantum Computing**, Liceo Enrico Medi, Villafranca VR (Feb. 4-6, 2023): Theoretical lecture and programming labs.
- **Quantum Computing**, Liceo Enrico Medi, Villafranca VR (Feb. 19, 2022): Theoretical lecture and programming labs.

## ACCOMPLISHMENTS

**Junction 2023 Hackathon** | *Helsinki, Finland* [github.com/CuremateJunction/frontend](https://github.com/CuremateJunction/frontend) Nov. 2023

**Qiskit Localization Contributor - Platinum Level Translator - 2022** | [\[link\]](#) Nov. 2022

**Quantum Excellence - Quantum Simulations** | *Qiskit Global Summer School 2022* [\[link\]](#) July 2022 - Aug. 2022

**Quantum Excellence - Quantum Machine Learning** | *Qiskit Global Summer School 2021* [\[link\]](#) June 2021 - Aug. 2021

**CyberChallenge.IT** | *CINI National Cyber Security Laboratory* [\[link\]](#) Feb. 2021 - June 2021

## LANGUAGES

**Italian** native | **English** proficient | **French** intermediate | **Spanish** basic