



## Profile

### Birth date

15 November 2003

### Nationalities

Swiss, German, French  
(Residence in Zürich)

### LinkedIn

[www.linkedin.com/in/jmaillefaud](http://www.linkedin.com/in/jmaillefaud)

### Personal Website

[jonat.me](http://jonat.me)

## Contact

### Phone

+41 79 524 63 38

### Email

[jonathan.maillefaud@gmail.com](mailto:jonathan.maillefaud@gmail.com)

## Skills

### Languages

French (native), German (native), English (fluent/C2), Mandarin (beginner/A2)

### Excellent

[Azure](#), [C++](#), [Git](#), [Python](#), [PyTorch](#)

### Good

[C](#), [C#](#), [Java](#), [Q#](#), [Rust](#)

### Soft

Analytical Thinking, Communication, Learning Agility, Problem Solving, Teamwork

## Education

### Hong-Kong University of Science and Technology (HKUST)

February 2024 – June 2024

Exchange semester at HKUST

### Swiss Federal Institute of Technology in Zürich (ETHZ), Switzerland

October 2021 – January 2025

Bachelor of Science ETH in Computer Science (Expected January 2025)

Current average: 5.3/6

Teaching assistant for courses: Digital Design and Computer Architecture, Numerical methods for Computer Scientists

Bachelor Thesis: Higher-order Drug Interactions with Hypergraph Neural Networks

### Institut Florimont, Petit Lancy (GE), Switzerland

2007 – 2021

Matura with distinction (5.3/6)

Matura paper: [Solving Graph Coloring on a Simulated Quantum Computer – an application of Grover's algorithm \(6/6\)](#)

## Work Experience

### ID Quantique, Carouge (GE) – Internship

June 2019

(Leading provider of quantum-safe crypto solutions)

Responsible for the development of a user interface to interact with the [Quantis QRNG Chip](#) (generates truly random numbers using light noise, in use in the Samsung Galaxy Quantum 3 smartphone.)

Supervisor's evaluation: Very Good

## Other Engagements

### ElectOMate – Lead Engineer

2024

[ElectOMate](#) helps voters build informed opinions by finding the parties best aligned with their views. Available as a web-application, it uses a powerful RAG system based on semantic parsing of hundreds of party manifestos. ElectOMate is worked on and is supervised by over twenty researchers and students at ETH Zürich, Hochschule Sankt Gallen, and Universität Zürich.

### ETH Model United Nations Society

2022 - 2024

Vice-President, Responsible for finances

Member of Organization Committee of Zürich MUN conference

### Volunteers Initiative Nepal

July 2024

Teaching English and other skills to children in a remote area of Nepal