



# LEO BOTELHO

✉ leobtlh@hotmail.com

📞 +41 78 302 50 85

📍 Montreux, Switzerland

BLOCKCHAIN PROTOCOL ARCHITECT & QUANT DEV

## SUMMARY

Now fully engaged in Mathematics studies, I am deepening my expertise in blockchain solutions and DeFi through the EPFL course FIN-413 and the Alyra certification (RS6675).

My goal is to apply this rigorous analytical framework to protocol design and on-chain economic modelling. I am seeking a 40% part-time position that allows me to contribute to innovative decentralized solutions while continuing my academic development.

## EDUCATION

### UNIDISTANCE

Bachelor of Mathematics

2026 -

### EPFL

FIN-413 - Financial applications ...

2026 -

### ALYRA

RS6675 - Leveraging DeFi in dApps

20.09.2025 - 19.12.2025

### HEIG-VD

Computer Science

2024 - 2026

## SKILLS

C language

C++ language

Python3 language

UX development

## SPOKEN LANGUAGES

French : native language

English : professional level

Portuguese : professional level

German : professional level

## EXPERTISE

- Decentralized Finance
- Quantitative Development
- Protocol Architecture
- Algorithmic Design
- DeFi Strategies

## PROJECTS

### DEFI PROJECT LEAD

Moeba Protocol, Lausanne | 2025 -

Moeba Protocol is a decentralized parametric insurance platform designed to democratize access to Catastrophe Bonds (Cat Bonds). Unlike traditional binary models, it utilizes a "Soft Default" waterfall mechanism to mitigate risk. The architecture segments capital into three layers: an Insurer First Loss buffer, a Junior Tranche (leveraged yield), and a Senior Tranche (capital protection with 70% base APR), making climate risk investment accessible to non-institutional liquidity.

Preview: <https://moeba-protocol.vercel.app/>

### RETHAGON - QUANT SYSTEM ARCHITECT

Alyra, Montreux | 20.09.2025 - 19.12.2025

This project is an autonomous decentralized betting platform for rap battles, designed to ensure artist compensation (15% fee). The betting system features real-time dynamic odds based on ERC-1155 liquidity and stake simulation. Outcomes are secured by a meritocratic oracle using ELO-weighted Soulbound Tokens (SBTs). Governance relies on a veToken model backed by an economic dispute mechanism: the majority captures the minority's staked tokens, making fraud irrational and guaranteeing result integrity.

## EXPERIENCE

### PYTHON AND WEB DEVELOPER

Altux SA, Lutry | 2023 - 2026

Broad experience in IT, particularly in Python development for internal tools and automation. Background includes server maintenance, firewall configuration, and basic penetration testing.