ALEXANDRU ARITON

@ anduariton1234@email.com   📞 +40 743 892 584   📍 Bucharest Romania

in alexandru-ariton   Barosandu

ACHIEVEMENTS

SEEMOUS 2023: Silver Medal

Student National Olympiad (Traian Lalescu): Bronze Medal

Apple Swift Student Challenge 2022 & 2021: Winner

Innovation Labs: Finalist

Romanian National Mathematics Olympiad 2019: 4th place

TECH STACK

C Swift Julia C++

ObjectiveC Python

SwiftUI UIKit Metal

LANGUAGES

English German | B2

COURSES

Introduction to Financial Engineering and Risk Management: Coursera

Term Structures and Credit Derivatives: Coursera

Computer Programming in Assembly: University "Politehnica" Bucharest

Algebra and Complex Analysis: University "Politehnica" Bucharest

Data Structures: University "Politehnica" Bucharest

ABOUT ME

I am a university student at the Politehnica University of Bucharest. I'm passionate about Apple and Quantum Technology.

EXPERIENCE

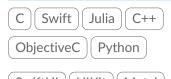Software Engineering Intern | Center for Quantum Networks

📅 June 2023 – October 2023   📍 Massachusetts, Remote

Collaboration between MIT, UMass Amherst, and University of Arizona

- Implemented **Double Selection Purification Circuits** in the library **QuantumSavoury.jl**
- Contributed to the purification circuits already exiting in **QuantumSavoury.jl**
- Made some visualisation tools that plots the output fidelity of both simple and double selection purification, and proves the improvement that double selection purification provides

EDUCATION

Bachelors Degree | University "Politehnica" Bucharest

📅 Oct 2022 – Present   📍 Bucharest, Romania

- GPA: 10.00/10.00

PROJECTS

Tesseract4D (4D Objects) | ⚙

📅 June 2022

- Shows how 4D objects would look like when crossing out 3D space
- Uses **raymarching** for optimisation and provides tools like rotation and transform
- Written in **Metal**, **Swift**

Vector Phase Plotter | ⚙

📅 June 2021

- Plots Lorentz and Roessler vector spaces
- Plots vector spaces according to equations provided by the user
- Was used in one of my physics classes by the teacher for demonstration purposes

NoteTaker

📅 Summer 2023 – Present

- Made a note taking app with infinite zoom using Apple technologies
- Encapsulated a function plotter that also has infinite zoom that is written in Metal