

ANGELO-GABRIEL BARBU

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WORK EXPERIENCE

Senior Software Engineer - Worldline Romania - Fintech - WLP FO May 2026 - Present

Leading role in development and maintenance of the issuing system of multiple financial institutions. I am responsible with documenting comprehensive software requirements and implementing core system modules using C++21. I have ensured software robustness by implementing unit tests using GTests, employing manual testing tools and expanding existing regression tests.

Software Engineer - Thales Romania - Naval Defense - OceanDS Nov 2024 - Present

I have contributed to spearheading the foundation of the project, driving it from an initial phase to active development. I have been responsible with documenting comprehensive software requirements and implementing core system modules using C++17 and Qt 6 framework. The responsibility has also extended to defining a build architecture and implementing a build system for the project using CMake, ensuring reliable and scalable modules. I have ensured software robustness by implementing unit tests using QTest and defining functional test plan documents and frameworks. I have also taken an active part in ramping up new colleagues and facilitating the knowledge transfer necessary for project familiarity.

Backend Software Developer - Business2Point Oct 2022 - Nov 2024

I have been responsible with developing the backend of an ERP software using C++ and Qt framework, developing the backend of an automation solution using Python and PyQt, integrating AI components in automation solutions, developing the backend of multiple web applications, websites and landing pages in PHP and JavaScript and developing browser extensions using JavaScript, implementing microservices using Flask and Waitress in Python.

Machine Learning Intern - Keysight Technologies Romania Jun - Sep 2022

The internship consisted of learning Machine Learning and Python fundamentals, learning and understanding the theory behind Machine Learning and applying it in multiple tasks such as image and handwritten digits classifiers using different Python libraries and ML techniques.

Apprentice Software Engineer - Oracle Romania Nov 2019 - Jun 2020

I have completed the Oracle Academy training program, where I have acquired experience in SQL development and Web Applications development with Java.

EDUCATION

Master of Engineering in Computer Science - Advanced Software Services 2023 - 2025

The Faculty of Automatic Control and Computer Science, Politehnica University, Bucharest.

Field of study: Computer Science

GPA: 9

Bachelor of Engineering in Automatic Control and Systems Engineering 2019 - 2023

The Faculty of Automatic Control and Computer Science, Politehnica University, Bucharest.

Field of study: Automatic Control and Systems Engineering

GPA: 8.5

SKILLS

Programming skills	C/C++, Python, Qt framework, Java, Matlab, Julia, SQL, PHP, JavaScript, HTML, CSS, MongoDB, PostgreSQL, Node.js, Flask, DataFrames, Truffle suite, Web3, Solidity, Redis Queues, Linux Bash, Git Bash, Blockchain, Algorithms and Data Structures, Object-Oriented Programming, Design Patterns, Machine Learning, Big Data, Prompt Engineering
Soft skills	Teamwork spirit, Sociable, Lifelong learner, Flexible and Adaptable
Language skills	English(proficient), Spanish(basic), German(basic)

PROJECTS

Masters project: Decentralised Digital Identity Verification System, 2023-2025

A platform where individuals can issue, manage and revoke identity credentials, managed on blockchain deployed on Ethereum Virtual Machine. The system includes a Node.js business logic, a React.js visual component, based on a local Ethereum blockchain environment powered by Truffle Suite (Ganache, Solidity for ETH Smart Contracts). The identities are owned by Ethereum wallets and they connect to the Digital Identity system through MetaMask.

Bachelors project: Blockchain system for energy resources' tracking and certification, 2022-2023

Local Blockchain network that runs using Ganache and Truffle suite for energy resources' trade, tracking and certification. Backend wise, Python's library Web3.py is used to implement the script that triggers the transaction and deploys the smart contract written using Solidity programming language. It was connected to the frontend(HTML and CSS) using a Node.js server and MongoDB database for big data entries.

Flights Management, 2021-2022

Uni project that consists of a GUI application using Java Swing connected to a SQL Server database.

Data Structures Project, 2020

University project that simulates the ATP Cup and implements multiple data structures, such as doubly linked list with sentinel, stack, queue and binary search tree for the purpose of solving multiple tasks.