ANGELO-GABRIEL BARBU

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WORK EXPERIENCE

Backend Software Developer - Business2Point
Nov 2022 - Present

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 Advanced Software Services
2023 - Present

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

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: Systems Engineering
GPA: 8.5

SKILLS

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

PROJECTS

Diploma 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.