

Experience

September 2021 – Present

Software Engineer

Keysight

- Working on custom network applications for keysight's clients. Mostly setting up containers and infrastructures for the build processes
- Used technologies:
 - C and C++
 - Lxc
 - JavaScript (Vanilla, Angular)

September 2020 – Present

Software Engineer

HBFS Robotics

- Together with some friends from university we started building custom solutions for different specific problems
- We created an invoice real time management app (mobile and web) that automatically extracts relevant data from the photo of an invoice and then starts a specific business flow for that information.
- We designed a robot for carrefour that walks around the shelves and scans the barcodes in order to check if there is a price mismatch, in which case it prints the correct label on the spot (this is really helpful for short term promotions especially). We also added depth perception cameras and custom trained ML models in order to provide some analytics data (what is bought, when, from which specific shop etc.). The robot can also send alerts to the warehouse when it finds an empty shelf (you need the merchandise to be exposed on the shelf, an empty shelf and a full warehouse is the worst possible combination.)
- We implemented a BMS (Building Management System) for a hotel from Sibiu (Hermanns - this one is still under construction, but our solution was already delivered and installed there) and an office building from Bucharest. Our solution enables the control of lights, thermostats, room access etc. through a tablet that is installed in the wall. We also designed a custom telephone exchange using a raspberry with a module from qmi sixfab in order to enable phone calls from the tablet.
- Used technologies:
 - Python (Vanilla, Flask, PyTorch, NumPy)
 - MongoDB (Mongoose)
 - Redis
 - PHP (Laravel)
 - JavaScript (Vanilla, Node, VueJs, ReactJs, React Native)
 - C
 - MySql
 - Git (github, bitbucket)

September 2019 – September
2020

Software Engineer

Engie

- Came back as a middle level developer, mostly i've given a final polish to projects the i previously worked on and optimized existing apps in terms of performance and readability
- I've implemented an OCR for scanning the ID card of the clients and automatically extracts data from it
- Used technologies:
 - C#
 - Python (Vanilla, OpenCV)
 - PHP (Vanilla, Laravel, CodeIgniter)
 - JavaScript (Vanilla, VueJs, ExtJs)
 - MySQL
 - SVN
 - Git (GitLab)
 - Jira

April 2019 – July 2019

Software Engineer

Encoded Technologies SRL

- A short term experience, based on a single project. My main role was to optimize the performance of an existing app
- Used technologies:
 - PHP (Vanilla, Symfony)
 - JavaScript (Vanilla, jQuery, ReactJs)
 - MySQL
 - MongoDB
 - ElasticSearch
 - Redis
 - Git (github, bitbucket)
 - Jira

December 2017 – February
2019

Web Software Engineer

Engie

- My first full time job, where i started to get assigned more responsibilities. I tried to learn and apply as many languages and technologies as possible in order for me to later decide what best suits me.
- I've handled the architecture of the central authentication server, design and also implementation.
- I've optimized older databases, that got to huge storing dimensions
- I started using frameworks (Laravel, CodeIgniter, VueJs, ExtJs) and writing code as clean and readable as possible, because the projects were big and we had to work in teams.
- Some of the projects that i have worked on: Engie; Distrigaz; Clients Portal;
- There are also internal applications and projects that i have worked on, but unfortunately they are not public: A custom CRM (with invoice and payment management); a gas meter installed in factories that i have programmed to send alarms in case of emergency and to automatically send the registered consumption.
- Used technologies:
 - PHP (Vanilla, Laravel, CodeIgniter)
 - JavaScript (Vanilla, Node, jQuery, VueJs, ExtJs)
 - MySQL
 - SVN
 - Jira

October 2016 – August 2017

Web Developer

Hype Media Systems

- My first job, where i've mostly written opencart plugins in php for online shops.
- I learned the basics in matter of networking, design patterns, server management..
- Some projects that i have worked on: Popupshop; Purple Flowers; Cuptorul cu lemne
- Used technologies:
 - PHP (Vanilla, Laravel, Opencart)
 - JavaScript (Vanilla, jQuery, VueJs)
 - Git

Education

2017 – 2021

Bachelors Degree

Faculty of Computer Science, Polytechnic University of Bucharest

- Systems Engineering and Industrial Programming applications
- I've had a lot of engineering courses, both theoretical (lots of maths and physics), but also practical (programming, electronics).
- I've specialized in C++ and designing complex process regulators.

2013 – 2017

High School

Colegiul Național de Informatică Tudor Vianu

- I've been to multiple programming competitions, learned a lot of algorithms and graph theory and also applied them in C++

SKILLS

Spoken Languages

Romanian - native English – fluent French – beginner

Technical Knowledge

Programming/Scripting Languages

- C & C++ - Advanced
- PHP - Advanced
- Python - Medium
- JavaScript & TypeScript - Advanced
- Java - Begginer
- C#- Begginer

Databases

- MySql
- MariaDB
- Mongo
- Redis
- ElasticSearch

Hobbies

Playing guitar, hiking, dog training, fixing everything in the house by myself (as much as i can, without the risk of setting everything on fire).