

Burghelea Zaharia

Curriculum Vitae

PERSONAL DETAILS

Birth date 14 October 1998
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GitHub <https://github.com/Zackyzz>
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EDUCATION

MSc. Advanced Computing Systems

2021-present

Lucian Blaga University of Sibiu

BSc. Computer Science

2017-2021

Lucian Blaga University of Sibiu

WORK EXPERIENCE

Software Engineer

March 2021 -
present

Ausy Technologies Romania

OOP training

Machine Learning & NLP Training

Software Developer (Python, C++ on Linux environment)

- automation, unit testing and maintenance

Internship

Sept. 2020 -
October 2020

Ausy Technologies Romania

Embedded Systems

Internship

July 2019 -
October 2019

Marquardt Schaltsysteme Sibiu

Embedded Systems

PROJECTS

Comparative study between different Machine Learning algorithms

Can be found detailed **here** in Romanian (this is my bachelor's thesis).

Predicting StackOverflow Tags

A detailed description can be found in this **paper** and the code is available **here**.

Handwritten Digit Recognition using JPEG & Deep Learning

Mostly an implementation of the book **Neural Networks and Deep Learning**, embedded with the JPEG algorithm. The code can be found **here**.

Various projects

Some projects relevant to Data Compression, Machine Learning, Image or Signal Processing and other stuff can be found on **my GitHub page**.

SKILLS

Languages

My mother tongue is Romanian, but I speak English fluently and studied a bit of French in high-school.

Programming

I enjoy learning new programming languages, especially more exotic ones like Racket or Haskell. Other than that I mostly used or worked with Python, C, C++, C#, Julia and Matlab.

Mathematics

In high-school I reached the national olympiad and later contributed to some math journals and forums such as the Romanian Mathematical Magazine, Crux Mathematicorum, AoPS or Mathematics Stack Exchange (my profile on the later one can be found **here**).

Others

I am proficient with LaTeX, Git and different operating systems (e.g. Linux).

Hobbies

I enjoy playing chess, cycling and solving math problems in my free time.

Interests

I am mostly interested in Artificial Intelligence, especially Machine Learning and Data Mining, but also in other fields like Computer Vision or Data Compression.