

Šimon Galba

Programmer / software engineer | Student



About me

Young, motivated student looking for a more serious work while finishing his studies and gaining experience. I am always trying to broaden my horizon and I believe the best way is by doing.

Contact

Born on 06/08/1999, Age 23

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Driving License B

Languages

English - Professional Knowledge

Slovak - Native language

German - Beginner

Soft Skills and Strengths

Love Learning New Things

Creativity

Curiosity

Flexibility

Self Confidence

Ability to Plan and Organize

Autonomy

Adaptability

Eye for Detail

Problem Solving

Team Working

Good Communication

Managing Information

Download My CV

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EDUCATION

2021-
Ongoing



Master's Degree
Brno University of Technology

📍 Brno, Czech Republic

Faculty of Information Technology - Information Technology and Artificial Intelligence with specialization on machine learning

A more specific, even more project oriented study program where I first studied in-depth application development including project planning, both front-end and back-end development, maintenance, documentation and bug fixing. I have later transitioned to a machine learning program, while deciding to get an extra study year that I have filled with extra classes including database development, computer vision and computer graphics. Lately I have been most focused on neural networks, Bayesian models and evolutionary algorithms.

2018-2021



Bachelor's Degree
Brno University of Technology

📍 Brno, Czech Republic

Faculty of Information Technology

A broad, hands on and project oriented, study program where I learned everything starting from computer hardware and basic computer topology. This course taught me understanding of the foundations of computer science including, but not limited to, discrete mathematics, formal languages and their models, spectral analysis of signals, modelling and simulation. In the later years, I learned all about control and data structures, object orientation, programming languages, compilers, operating systems and complete applications built on these technologies. Soft-skill wise I have definitely obtained the ability to work in teams (often teams not of my choice) as well as time management, autonomy and individual problem solving.

WORK EXPERIENCE

**Out of field
experience**

Bartending and table service

📍 Swindon, England

I have filled every summer with various service oriented jobs, including bartending at a high-end restaurant in England where I perfected my English and learned customer care.

Renting services

📍 High Tatras, Slovakia

For the past 5 years, I have worked at the same summer job providing scooter renting services to customers in Slovakia. Even though this is outside my field of study, it gave me the experience and confidence in working with people, managing the company's assets and care for customer satisfactions, since after 2 years I was entrusted to oversee all daily tasks without a supervisor which put me in a position with a lot of responsibility.

**School
experience**

Various projects

📍 Brno, Czech Republic

Throughout my studies, I had the opportunity to get hands-on experience in project development, which ranged from the very first steps of customer specifications, modelling all the way through development, testing up to production and product presentation. I have developed databases, mobile and desktop applications and created documentation for them. I have created standalone java applications, bash and python scripts and various C/C++ programs. Further down are some examples of these projects.

Other Interests

- Volleyball 
- Movies 
- Gym 
- Books 
- Travels 

School experience

Compiler

Used technologies: C, UML

As a 4 person team, we have successfully created a compiler of a custom, imperative language. Apart from my bachelor thesis, this was the biggest school project I worked on. I was responsible for the semantic analysis of mathematical equations using a precedence table matrix.

Interactive public transport app

Used technologies: JAVA, json

I have created a standalone application allowing the user to oversee the public transport on a map, alter and add stops and create routes. The map showed a simulated real time movement, and all the data was stored in json format.

Simulation of Covid spread by aerosols

Used technologies: C++

Using the SimLib library, I have designed an experiment to study the spread of Covid in an enclosed space by aerosols using information from the national health agency. I have programmed the experiment, made an analysis, documented the results and presented my findings.

Electronic health records database

Used technologies: php, sql, html, css, javascript

As a team of 3, we have created a relational healthcare database with a web interface consisting of 4 subgroups of users with corresponding permissions. I was in charge of creating certain subpages and php scripting. As a prt of the learning experience, we have adhered to "good principles" when developing the database, including all the necessary modelling.

Neural networks

Used technologies: python

As a part of my specialisation, I have created multiple neural networks in python including face and voice recognition, object counting in images, stroke prediction based on health data and the implementation of LDA Bayesian models.

INFORMATION TECHNOLOGY SKILLS

Data Analysis

Jupyter Notebook: *Intermediate*

Version Control

Git / GitHub: *Advanced*

Modeling and Simulation

SimLib : *Intermediate*

Office Automation

MS Office (Excel, Word, PowerPoint): *Intermediate*
LaTeX: *Advanced*

</> PROGRAMMING LANGUAGES

Intermediate:

- Python
- SQL
- C/C++
- Java
- JavaScript

Beginner:

- Haskell
- Prolog