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

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- 🚗 Driving License B

Languages

- 🇬🇧 English - Professional Knowledge
- 🇸🇰 Slovak - Native language
- 🇩🇪 German - Beginner

Programming languages

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

Beginner:
- Haskell
- Prolog

Download My CV

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🎓 EDUCATION

2021-Ongoing

Master's Degree 📍 Brno, Czech Republic
Brno University of Technology
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 planing, 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, Czech Republic
Brno University of Technology
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.

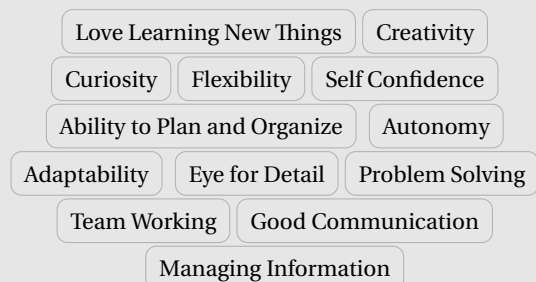**Renting services** 📍 High Tatras, Slovakia

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.

——— 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

——— Other Interests ———

- Volleyball 🏐
- Gym 🏋
- Travels ✈
- Movies 🎥
- Books 📚

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	**Jupiter Notebook**: *Intermediate*
Version Control	**Git / GitHub**: *Advanced*
Modeling and Simulation	**SimLib** : *Intermediate*
Office Automation	**MS Office (Excel, Word, PowerPoint)**: *Intermediate* **LaTeX**: *Advanced*