Karel Fojtík

Software developer

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📞 +420 774 079 964   📍 Olomouc, Czech Republic

💼 PROFESSIONAL EXPERIENCE

Sep 2021 – present
Olomouc / remote,
Czech Republic

Software developer, *Institute of Molecular and Translational Medicine* ↗
Developing full-stack web applications for the Institute of Molecular and Translational Medicine. Enhancing existing features, adding new functionalities, and ensuring code quality through thorough testing.

Tech Stack:
- Attlasian suite (Jira, Bitbucket, Bamboo)
- Java (Spring Boot, JPA, jUnit)
- JavaScript (EC6, jQuery)
- Oracle SQL
- Docker

Oct 2019 – May 2021
Prague / remote,
Czech Republic

Technical Service Specialist, *Abbott Laboratories, s.r.o.* ↗
The Technical Service Specialist is responsible for providing support to our customer base, you will be responsible for handling installations and deinstallations, repairs, instrument hardware or software upgrades and providing basic training to customers.

- Schedule and perform planned maintenance (PM) activities
- Perform new customers and laboratory site inspections for new contract / tender preparations and design for new installations
- Conduct / assist with installation of instruments, AbbottLink, and automation and deinstallations
- Assist with customer business reviews
- Schedule, perform and document hardware and software updates (TSBs)
- Deliver basic customer operator introductory trainings post install

Mar 2018 – Jun 2018
Grenoble, France

Researcher, *Polytech Grenoble* ↗
Erasmus internship research-focused project centered around the exploration of Optimum Localization of PCG Sensors and Analysis of PCG Signal

- Phonocardiographic Signal Data Acquisition
- Matlab Signal Processing
- Statistical Hypothesis Testing and Data Analysis using R
- Research Article Contribution: Delivered insights and findings through a published research paper ↗

2011 – present
Czech Republic

Junior Project Manager, *Tern event, s.r.o.* ↗
Seasonal Project Management of Team Building Activities and Fun Corporate Team Events. Senior Outdoor Instructor

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🎓 EDUCATION

2016 – 2019
Ostrava,
Czech Republic

Biomedical Engineer, *VSB – Technical University of Ostrava, Faculty of Electrical Engineering and Computer Science* ↗
The Master's Degree Program in Biomedical Engineering is a 2 year study program that is accredited simultaneously by the Ministry of Education and also by the Ministry of Health. Upon successful completion, graduates become an electrical engineer and also a non-medical medical worker.
- Master's thesis: *Optimum Localization of PCG Sensors and Analysis of These Signals*
- Diploma exam, Dean's award for the excellent diploma thesis

2013 – 2016 Ostrava, Czech Republic	**Biomedical Technician,** *VSB – Technical University of Ostrava, Faculty of Electrical Engineering and Computer Science* ⧉

The Bachelor's Degree Program in Biomedical Technology program is a 3 year study program. The study program is focused on the field of biomedical engineering, which combines the disciplines of engineering and medical sciences.

- Bachelor's thesis: *Software for Feedback using Rehabilitation Device*
- Diploma exam, Dean's award for the excellent bachelor thesis

2009 – 2013 Olomouc, Czech Republic	**Technical Lyceum,** *VOŠ A SPŠE OLOMOUC*

Secondary School Of Electrical Engineering Maturita (A-LEVELS) exam - passed with honors

- Seminar paper: *Fylogenetic Evolution of Circulatory System*

🧠 SKILLS

Java
Spring Boot, jUnit, JPA
● ● ● ● ○

JavaScript
EC6, jQuery
● ● ● ● ○

Atlassian Suite
Jira, Bitbucket, Bamboo
● ● ● ● ○

Databases
Oracle SQL, MongoDB
● ● ● ○ ○

C#
.NET, WPF, WF
● ● ○ ○ ○

Docker, Kubernetes
● ● ○ ○ ○

Other
MATLAB, R, Unity 3D, CAD systems (AutoCAD), Ai

📑 CERTIFICATES

Driving licence
category B

Decree 50/1987 Coll. – §7
Decree of the Czech Office for Safety and the Czech Mining Office, passed 2019

Abbott Laboratories, s.r.o.
ACCELERATOR a3600 (Automation System)
DMS (Data Managment System)
CD RUBY (Hematology System)
Architect i2000SR (Immunoassay Analyzer)

Czech Society for Medical Devices
Use of telemedicine in infusion therapy
Use of telemedicine in hemodialysis therapy

🌐 LANGUAGES

Czech
● ● ● ● ●

English
● ● ● ● ○

Spanish
● ● ○ ○ ○

📁 PROJECTS

Optimum Localization of PCG Sensors and Analysis of These Signals, *Master's thesis* ⧉
2018 – 2019

- Phonocardiographic Signal Data Acquisition
- Matlab Signal Processing
- Data Analysis and Statistical Hypothesis Testing using R

Software for exercise on rehabilitation device,
Part-time project
2017
Creating software to manage patient records and facilitate exercise routines on a rehabilitation device, utilizing C#, WPF, and Microsoft SQL technologies.

Software for Feedback using Rehabilitation Device,
Bachelor's thesis
2015 – 2016
Designing software that features a range of 2D and 3D games intended for exercise on a balance board equipped with inertial sensors, enabling seamless integration of biofeedback (using C# and Unity Engine).

📖 PUBLICATIONS

Is there an Optimal Localization of Cardio-microphone Sensors for Phonocardiogram Analysis?, *41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)* ⧉

⚙ INTERESTS

travel blogging ⧉ | travelling | hiking | digital graphics | video editing ⧉ | fitness | floorball | reading