

PETRA MILLAROVÁ

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EDUCATION

Czech Technical University in Prague, Czech Republic
Master's degree, Geomatics, 2017–2019
Bachelor's degree, Geodesy, Cartography and Geoinformatics, 2014–2017

RELEVANT EXPERIENCE

Junior Software Developer **GEPRO s.r.o.**
July 2017–September 2019 **Prague, CZ**
Responsible for maintenance and development of the visualization library for CAD-like software. Development of plugins to support loading and editing various database formats. Extending the Mapnik library for the development of mapping applications by adding the ability to display piecharts.
- *Leveraged knowledge:* C++ with MS Visual Studio 2010 and 2017, SVN, Boost and Mapnik libraries, XML, spatial databases (Spatialite, PostGIS etc.)

Land surveyor **GRV s.r.o.**
July 2016–July 2017 **Roudnice nad Labem, CZ**
Topographic surveys, setting-out of land parcels, survey for purpose of building documentation. Documentation of control measurement for gas pipeline building, survey sketches for cadastre purposes.
- *Software and hardware used:* Leica one-man station, Topcon GPS, Kokeš and Groma software for surveyors, MicroStation.

PROJECTS

Master's thesis - Combinatorial computation of coordinates in the GNU Gama project
Improvement of calculation of approximate coordinates with elimination of gross errors.
- *Utilised:* MS Visual Studio 2017, CMake, C++, Git
- *Available at:* <https://dspace.cvut.cz/handle/10467/83570>

Prague Microbreweries A map showing the user's location and locations of Prague's microbreweries, along with additional information about them.
- *Utilised:* JavaScript, Leaflet, GeoJSON, HTML, Git
- *Available at:* <https://millapet.github.io/PragueMicrobreweries/>

Bachelor's thesis - Smoothing of spectrometric data A console application that takes in spectrometric data in xml format and outputs their smoothed coordinates according to the parameters that were set.
- *Utilised:* Qt, C++, Git
- *Available at:* <https://dspace.cvut.cz/handle/10467/68743>

SKILLS

Programming languages - proficient: C++, SQL, Matlab, XML
Programming languages - familiar: Python, Bash, Visual Basic, JavaScript
Software: MS Visual Studio, QtCreator, Git, ArcGIS, QGIS, MicroStation, MS Office
Languages - native speaker: English, Czech
Languages - beginner: German, Russian