

# Michal Torma

SOFTWARE ENGINEER

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## Education

### University of South-Eastern Norway

MASTER IN ENVIRONMENTAL SCIENCE

*Bø i Telemark*

*June 2019*

- Master thesis - The reliability of Citizen-science data collection - analysis of *Natur i Endring* project

### University of Zilina

BACHELOR IN NATURE PROTECTION AND LANDSCAPE MANAGEMENT

*Zilina, Slovakia*

*June 2014*

- Telemark university collage, Bø i Telemark, Norway — Semester abroad - spring 2012

## Skills

**Languages** Python, Dart, Kotlin, Swift, Java, SQL, C, PHP, LaTeX

**Frameworks** Flutter, Django, Flask, Keras, WordPress

## Experience

### University of Oslo

EXECUTIVE OFFICER

*Oslo, Norway*

*Jan. 2018 - PRESENT*

- Developing and maintaining of citizen science project called *Natur i Endring* which consists of native mobile app for both iOS (written in Swift 4) and Android (written in Kotlin). Part of the job is developing and maintaining Linux VPS for the backend using Flask (later Django). I also work on migration of mobile apps to Flutter framework to streamline development. [www.naturiendring.no](http://www.naturiendring.no)

### Self-employed

WEB DEVELOPER

*Martin, Slovakia*

*Jan. 2015 - Apr. 2019*

- Developed multitude of webpages based on WordPress framework for small local businesses. Here are some examples.  
[sjoormen.no](http://sjoormen.no) - Webpage for promotion of Garvikstrondi camping (Seljord, Norway)  
[classservice.sk](http://classservice.sk) - Webpage for local taxi service (Martin, Slovakia)

### Hewlett-Packard

LINUX ADMINISTRATION LECTURER

*Prague, Czech Republic*

*Jul. 2009 - Aug. 2010*

- Lectured courses about Linux administration for enterprise customers.

### Apple retailer

IT TECHNICIAN

*Boston, MA*

*Apr. 2007 - Aug. 2008*

- Worked as an IT technician for small Apple retailer.

## Projects

### GIS data scrubbing and analysis

*Jan. 2018 - PRESENT*

- Django based solution for GIS data gathering from legacy sources
- Personal project that gathers forestry data in Slovakia from old public servers where the only public option to access the data is through Silverlight web app. This solution gathers the available data while keeping track of sparse changes in time. Metadata for individual polygons are gathered from .NET server, decoded from binary XML files and stored in organized PostGIS database.

### Android app for camping

*Jul. 2017 - Aug. 2017*

- App designed to support exploration of natural surroundings for tourists in Garvikstrondi camping (Seljord, Norway). [Google Play store](#)
- Offline-capable map including tracks of hikes in the area with detailed descriptions

### Accelerometric data analysis

*Aug. 2015 - Jul. 2017*

- Unsupervised machine learning project for analysis of accelerometric data from brown bear (*Ursus arctos*) to identify distinct animal behaviors. Project used Keras library for deep neural networks