



# DANIEL UNGUREANU

GIS - PYTHON - M.S.C.

## EXPERIENCE

Sept 2022 - now

### RNP ROMSILVA - ADMINISTRATIA PARCULUI NATURAL BUCEGI R.A.

#### IT SPECIALIST

- SQL databases (POSTGIS) management, established digital infrastructure for field surveys using QFIELD, cloud integration, and QGIS with advanced forms. Developed a new website using Django, Python, JavaScript and HTML, webhooks for payment systems, maintaining the local network, Ubuntu servers. Working on a timesheets app with API capabilities.

Dec 2021 - now

### UNGUREANU WEBTECH SRL

#### SOFTWARE DEV & ADMINISTRATOR

- Developing online apps for clients using Python/Django, JavaScript, jQuery, Bootstrap, HTML, CSS, AWS, Docker, Asyncio, Linux and more.

2017 - 2022

### OBICEIURI SANATOASE SRL

#### BUSINESS ASSOCIATE

- An artisan bakery I co-founded. Built its website, a voucher management app and managed the online presence.

Mar 2014 - Sept 2018

### FUNDATIA CONSERVATION CARPATHIA

#### PROJECT ASSISTANT MANAGER

- Coordinated field activities, forest inventories, did periodical reports, used QGIS and ARCGIS 10.2 extensively for mapping, field data collection and for planning management activities, used various handheld GPS devices, including Terrasync software.

May 2012 - Jan 2014

### FOREST & BIOMASS ROMANIA S.A.

#### FOREST ENG. & TECHNICAL DIRECTOR

- Initially started as deputy forest engineer on forest survey using QGIS and handheld NAUTIZ devices, then been promoted to technical director, responsible for planning operations using QGIS, coordinating team, etc.

## PROFILE

With a solid academic background in Forest Sciences and over 9 years of experience applying GIS technologies to nature conservation projects, I bring both domain expertise and technical versatility to the role of GIS Engineer. Since 2018, I have expanded my skill set into software development, mastering Python and building web applications with Django, while integrating modern tools such as Docker, asyncio, and Git into my workflow. My experience spans database management (PostgreSQL, MySQL), front-end development (HTML, CSS, jQuery), and data science (pandas, matplotlib), complemented by strong proficiency in GIS software and spatial analysis. Passionate about leveraging technology to solve real world problems, my career goal is to contribute to innovative projects at the intersection of GIS and programming.

## EDUCATION

### INITIATION INTO PROGRAMMING

#### SCRIU COD

[www.scriucod.eu](http://www.scriucod.eu)

2017 - 2018

- A 6 months python programming course, where we learned from actually working on small personal projects, that each of us was free to choose.

### MASTER IN SCIENCE

#### UNIVERSITATEA TRANSILVANIA

[www.unitbv.ro](http://www.unitbv.ro)

2010 - 2012

- Built or improved skills on forest ecology, surveys, habitats classification, forest site conditions, GIS software, relational databases, research, statistical analysis with R & Statistica.

### BACHELOR DIPLOMA - FOREST ENGINEER

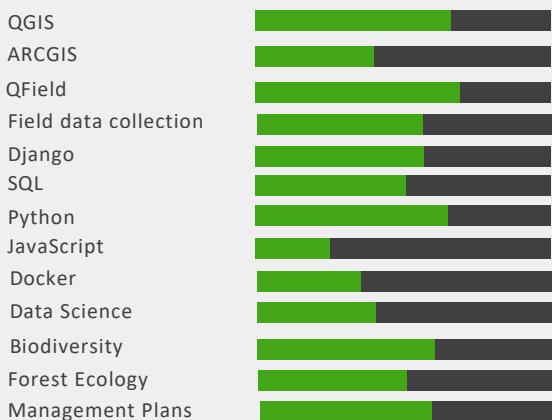
#### UNIVERSITATEA TRANSILVANIA

[www.unitbv.ro](http://www.unitbv.ro)

2006 - 2010

- Built skills on forest management, ecology, wildlife, site index, statistical analysis, ArcGIS & QGIS, R, monitoring, research. Been a volunteer for a local FSC certification association in Brașov, Romania during University. Participated in two student scientific research groups (Entomology and Silviculture).

## SKILLS



## LANGUAGES



## EXCHANGE PROGRAMS

### PART OF A LIFE+ PROJECT

#### **ARGENTINA & CHILE**

- A 3 weeks visit in National Parks and protected areas created by Tompkins Conservation in Argentina and Chile.

Apr 2015

### OCEAN PROGRAM BETWEEN E.U. SI CANADA

#### **ALBERTA & BRITISH COLUMBIA**

- A 3 weeks excursion in western Canada, visiting forestry and protected areas field work sites.

Aug 2011

### ERASMUS MUNDUS SCHOLARSHIP

#### **GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN**

- A 3 months exchange program at Georg - August Universität Göttingen. It involved research work in an entomology lab and practicing statistics in R.

Apr 2011 - Jun 2011

### ERASMUS MUNDUS SCHOLARSHIP

#### **GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN**

- An exchange program lasting 6 months at Georg - August Universität Göttingen. It consisted of lectures on international forest practices, plus German language courses.

Sept 2009 - Mar 2010

### SUMMER SCHOOL

#### **GREECE**

- A 3 weeks visit at Aristotle University in Thessaloniki for practicing data cluster analysis on plant species and site conditions.

Apr 2015

## CERTIFICATES

### Top 25% Python Certificate

#### **TESTDOME**

[link](#)

- Popular test for Python skills

Apr 2022

### Data Analysis with Python

#### **FREECODECAMP**

[link](#)

- Data Analysis test using Python programming language, along with some of its statistics modules: Pandas, Matplotlib, Numpy. The test certifies solving difficult problems and a total of 300 hours of applied work.

Jan 2021

### Scientific Computing with Python

#### **FREECODECAMP**

[link](#)

- Scientific Data Analysis test using Python programming language, along with its statistics and data science modules: Pandas, Matplotlib, Numpy. The test certifies solving difficult problems and a total of 300 hours of applied work.

Jan 2021

### International English Language Testing System

#### **BRITISH COUNCIL BUCHAREST**

- The result was Band 8, meaning a C1 level - Fluent speaker.

Oct 2021

## CONTRIBUTIONS & PROJECTS

### Etude de la sylviculture appliquée à un peuplement de noyer noir (*Juglans nigra L.*)

[link](#)

### Artificial pruning of common ash (*Fraxinus excelsior L.*)

[link](#)

### Asistent manager of project LIFE11/NAT/RO/823 "ECOLOGICAL RESTORATION OF FOREST AND AQUATIC HABITATS IN THE UPPER DÂMBOVIȚA VALLEY, FĂGĂRAȘ MOUNTAINS"

[link](#)

2014 - 2018