NIKOLAOS BAKOGIANNIS

GIS Developer

With an M.Sc. in Geomatics from ETH Zurich and experience as a Scientific Assistant at ZHAW, I have developed a solid foundation in geospatial analysis and data management. As a GIS Developer at Crosswind GmbH, I led ETL processes and managed data pipelines, ensuring data integrity and optimizing workflows for geospatial databases. Using Python (arcpy, geopandas, GDAL/OGR, Folium) alongside GIS tools like QGIS and ArcGIS Pro, I delivered customized solutions that supported clients in making data-driven decisions.

Following this role, I completed a Full Stack Web Development bootcamp, expanding my technical skills with Ruby on Rails, JavaScript, HTML, and CSS. This experience has strengthened my ability to create fully responsive applications, allowing me to deliver comprehensive and integrated geospatial solutions.



EDUCATION

09.2024 | 07.2024

Le Wagon

Coding Bootcamp, Web Development

Online

Full-Stack Development

2018

Eidgenössische Technische Hochschule Zürich (ETH Zürich)

Master's degree, Geomatic Engineering

Zurich, Switzerland

Thesis: Cartographic visualization for indoor semantic wayfinding

2014 | 2012

2010

2005

Athens University of Economic and Business (AUEB)

Master in Business Administration (MBA)

• Athens, Greece

National Technical University of Athens (NTUA)

Diploma in Rural and Surveying Engineering. School of Rural and Surveying Engineering (SRSE)

(5 years studies equivalent to Master 300 ECTS)

Athens, Greece

PROFESSIONAL EXPERIENCE

07.2024 | 09.2022

GIS Developer

Crosswind GmbH

- Winterthur, Switzerland
- Responsible for transitioning company's major working pipelines from FME to Python
- Participating in projects for clients, such as MünichRE, Swisscom, Sunrise, BKW
- Responsible for the further development of company's Data Model and Structure

CONTACT INFO

■ n.bakogiannis@outlook.com

Github

My Website

4 +41766731345

For more information, please contact me via email.

SKILLS

Experienced in programming and scripting for spatial analysis

Full experience in cartography and geovisualisation.

Highly skilled in R, SQL, PostgreSQL, Python, HTML, JavaScript, CSS, Ruby on Rails, React, FME, ArcGISpro (ESRI), QGIS, Git

English: Proficient/Fluent

German: Advanced (C1 Niveau Goethe Institute)

Scientific Assistant 08.2022 Geoinformatics Research Group, Zurich University of Applied 07.2019 Sciences (ZHAW) Wädenswil, Switzerland Member in projects: • Monitoring Sihlhölzlipark • Bikeability in Schweizer Städten und deren Agglomeration unter dem Einfluss der e-Mobilität Teaching Experience • Cultural Mapping 4.0 – Innovative Wege zur Stärkung der kulturellen Identität der Bodenseeregion • FIT with Markdown (unlocking the potential of the publication language R-Markdown for data-oriented teaching) **Software Engineer** 07.2019 Flury AG Lenzburg, Switzerland 05.2019 Member of the geomatic engineering team Software Engineer, Intern 04.2019 Leica Geosystems AG St. Gallen (Heerbrugg), Switzerland 10.2018 Work for project BLK3D in the software engineering team of Disto Vertical Department • Support the release of new Leica BLK3D products and mobile/desktop applications • Stereo processing using Semi-Global Matching • Optimize feature detection and feature matching for Multishot • Support camera calibration, accuracy evaluation and unit/integration **Freelance Geomatic Engineer** 2016 Athens, Greece Freelancing 2011 • Working as a freelance Geomatic Engineer • Preparing topographic and photogrammetric surveys for private and public sector • Recording registrable rights for cadastral surveys at the region of Attiki • Working as a freelance engineer in construction engineering company Eurocyfield **Assistant Project Manager** 2013 Athens, Greece **Eurasian Partners** 2011 • Participation in content design for print and electronic major media in Greece • Support in organizing international conferences and academic events • Responsible for establishing and maintaining software programs

Geomatic Engineer

 Project: Construction of new railway association of Port Ikonio

AKTOR (Member of ELLAKTOR Group)

• Athens, Greece

2011

2010

♣☐ TEACHING EXPERIENCE

2022 2019	•	Geographic Information System (GIS) Teaching assistant of the introductory course to GIS (BSc in Environment and Natural Resources)
2022 2019	•	Angewandte Geoinformatik (Applied geoinformatics) Teaching assistant of the advanced course in GIS (BSc in Environment and Natural Resources)
2022 2019		Patterns & Trends in Environmental Data – Computational Movement Analysis Teaching assistant (MSc in Environment and Natural Resources)
		SELECTED PUBLICATIONS AND POSTERS
2023		Uncertainty analysis of geodata derived from digital map

processing
International Journal of Geographical Information Science · May 15,

International Journal of Geographical Information Science · May 15, 2023

Cyrill Delfgou, Bakogiannis, N., Patrick Laube

2019

Cartographic Visualization for Indoor Semantic Wayfinding.
 Multimodal Technologies and Interaction

Multimodal Technologies and Interaction, 3(1), 22. **Bakogiannis, N.**, Gkonos, C., & Hurni, L.

2018 • A Public Gaze-Controlled Campus Map. In Eye Tracking for Spatial Research

Proceedings of the 3rd International Workshop. ETH Zurich.

Zurich, Switzerland

Göbel, F., **Bakogiannis, N.**, Henggeler, K., Tschümperlin, R., Xu, Y., Kiefer, P., & Raubal, M.