NIKOLAOS BAKOGIANNIS

GIS Developer

Until recently (07.2024), I worked as a GIS Developer at Crosswind GmbH, where I was responsible for managing ETL (Extract, Transform, Load) processes for our key databases, overseeing the design, development, and maintenance of data pipelines. My role involved ensuring data integrity, optimizing data flows, and automating ETL processes to streamline operations. Additionally, I frequently tackled clients' geospatial challenges by developing scripts in Python (arcpy, geopandas, GDAL/OGR, Folium, etc.) and utilizing GIS software tools like QGIS and ArcGIS Pro. These efforts were focused on delivering effective and customized geospatial solutions tailored to client needs, supporting data-driven decision-making.

🎓 EDUCATION

09.2024
|
07.2024

Le Wagon
Coding Bootcamp, Web Development 📍 Online

Full-Stack Development

2018
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2016

Eidgenössische Technische Hochschule Zürich (ETH Zürich)
Master's degree, Geomatic Engineering 📍 Zurich, Switzerland

Thesis: Cartographic visualization for indoor semantic wayfinding

2014
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2012

Athens University of Economic and Business (AUEB)
Master in Business Administration (MBA) 📍 Athens, Greece

2010
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2005

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

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 https://github.com/KimboGilda
📞 +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, FME, ArcGISpro (ESRI), QGIS, Git

English: Proficient/Fluent

German: Advanced (C1 Niveau Goethe Institute)

08.2022
|
07.2019

Scientific Assistant

Geoinformatics Research Group, Zurich University of Applied 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)

07.2019
|
05.2019

Software Engineer

Flury AG 📍 Lenzburg, Switzerland

Member of the geomatic engineering team

04.2019
|
10.2018

Software Engineer, Intern

Leica Geosystems AG 📍 St. Gallen (Heerbrugg), Switzerland

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 test

2016
|
2011

Freelance Geomatic Engineer

Freelancing 📍 Athens, Greece

• 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

2013
|
2011

Assistant Project Manager

Eurasian Partners 📍 Athens, Greece

• 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

2011
|
2010

Geomatic Engineer

AKTOR (Member of ELLAKTOR Group) 📍 Athens, Greece

• Project: Construction of new railway association of Port Ikonio

TEACHING EXPERIENCE

2022 | 2019

Geographic Information System (GIS)
Teaching assistant of the introductory course to GIS (BSc in Environment and Natural Resources)
📍 Wädenswil, Switzerland

2022 | 2019

Angewandte Geoinformatik (Applied geoinformatics)
Teaching assistant of the advanced course in GIS (BSc in Environment and Natural Resources)
📍 Wädenswil, Switzerland

2022 | 2019

Patterns & Trends in Environmental Data – Computational Movement Analysis
Teaching assistant (MSc in Environment and Natural Resources)
📍 Wädenswil, Switzerland

SELECTED PUBLICATIONS AND POSTERS

2023

Uncertainty analysis of geodata derived from digital map processing
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.