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GitHub



Research Gate



LinkedIn

TECHNOLOGIES

Languages & Frameworks: Python, Typescript, Django, FastAPI, Node

Databases: PostgreSQL, PostGIS, Redis

DevOps & Tools: Docker, GitHub Actions, CI/CD

Frontend: React, TailwindCSS

Other: Celery, GIS, xarray, NumPy, GDAL, Terracotta

Standards: OGC, STAC, MVT, OCPI, CAP, EOEPCA

RESEARCH PAPERS

Slope - scale rockfall modelling from accurate 3D morphology, an example from Plomari, Lesvos Island, East Aegean Sea

12th Asian Regional conference of IAEG, 2019

A Novel Semi-Automated Approach for Rockfall Hazard Assessment from 3D Point Clouds: A Post-Failure Case on the Island of Lesvos, Greece.

ARMA - 53rd U.S. Rock Mechanics/Geomechanics Symposium, 2019

UAV Point Clouds for Semi-Automated Rockfall Hazard Assessment: a Post-Failure Application of a Novel Method in Plomari, Lesvos Island

15th International Congress of the Geological Society of Greece, 2019

Hellenic Space Center DataHub: An Integrated Geographic Information System for Satellite Earth Observation Data

45th EARSel Symposium, 2026

EDUCATION

Aristotle University of Thessaloniki

BSc Geology 2015-2020

Graduated first of class (GPA 8.63).

Published research on the application of 3D remote sensing techniques on slope stability assessment & monitoring

National Technical university of Athens

MSc Geoinformatics 2021-2023

LANGUAGES

Greek	Native
English	Fluent / Academic
French	Conversational

HONORS - AWARDS

Top10 Finalist

@GreenathonAI4Good

2019

Senior Geospatial Software Engineer

Geospatial Enabling Technologies

2022 - Present

Designing, building, and maintaining data-driven web applications for the public and civil protection sectors. Full-stack role with product ownership across their entire lifecycle.

- Key contributions:
- Architected cloud-native deployment workflows utilizing Docker and CI/CD pipelines, which significantly reduced release latency and enhanced system resilience for national-scale geospatial platforms.
 - Led backend modernization initiatives, successfully transitioning legacy systems to high-performance, Python-first (FastAPI/Django) containerized environments.
 - Directed the end-to-end product lifecycle of mission-critical web applications, translating complex requirements from non-technical stakeholders into robust technical outcomes to facilitate disaster response readiness.

- Notable works:
- Satellite Imagery Marketplace & Geodatahub (Hellenic Space Center): Engineered a cloud-native platform for EO data discovery, tasking, and order lifecycle management. The system leverages EOEPCA-compliant architecture, featuring a STAC catalog, a custom-built workflow engine, and enterprise-grade IAM/SSO integration.
 - Automated Warning System (Hellenic National Meteorological Service): Developed a key internal system for the forecasting department that automatically ingests ECMWF data and generates weather warnings based on dynamic criteria. Provides sophisticated visualization for raster and vector products, with automated dissemination via map tiles and Common Alert Protocol (CAP) calls.

GIS Engineer / Developer

Geomeletitiki Consulting Engineers

2021 - 2022

Worked on high-impact national geospatial projects across the energy, urban planning, and infrastructure sectors. Developed solutions to automate and accelerate complex geospatial workflows. Collaborated closely with engineering teams to deliver production-ready tools and services.

- Key Contributions:
- Energy Intelligence & Compliance: Designed and implemented rigorous data specifications for the national geodatabase of Renewable Energy (Wind & Solar) exclusion zones, ensuring spatial accuracy and regulatory compliance for the Ministry of Energy.
 - SpatioTemporal Pipeline Optimization: Streamlined large-scale geospatial automation tools, increasing hydrological modeling throughput from <100 km2/day to >1000 km2/day.
 - High-Scale Data Engineering: Developed a multithreaded batch geocoding engine for major infrastructure projects, accelerating delivery timelines by 75% (from 12 months down to 3).
 - 3D Visualisation & Analytics: Built custom 3D point cloud processing pipelines and web-based visualization tools, eliminating dependency on expensive third-party SaaS and reducing operational licensing costs.

Undergraduate Researcher

Aristotle University of Thessaloniki

2018 - 2020

- Research on the applications of geoinformatics & remote sensing on Engineering Geology. Research group focused on semi-automatic processes and methods for classification, hazard assessment and analysis of 3D LIDaR & SfM Photogrammetric models.
- Developed workflows for rock-slope hazard assessment and 3D geotechnical analysis.
- Published 3 academic works, and presented findings at the international congress of the Geological Society of Greece, becoming the youngest speaker of the institution, at age 21.