Georgios Matziaras

SOFTWARE ENGINEER | SYSTEMS & INFRASTRUCTURE

Computer Science graduate with a strong foundation in software engineering and systems infrastructure. Experienced in backend development, mobile application design, and Linux server management via GitOps. Proactive problem solver with a passion for automating workflows and building efficient self-hosted environments.

CONTACT

LOCATION
 Thessaloniki

EMAIL
 mail@geomat.dev

WEBSITE
 www.geomat.dev

LINKEDIN
 georgios-matziaras

GITHUB
 Matzi24GR

SKILLS

Languages
Java, Python, Kotlin,
SQL, Shell Scripting

Infrastructure
Docker, GitOps (Komodo),
OCI, Traefik, Authentik,
Forgejo, Debian Linux

Software Dev
FastAPI, Jetpack Compose,
libGDX, Room, Retrofit

LANGUAGES

Greek	Native
English	C2
French	C1

EXPERIENCE

Research Assistant | University of Macedonia July 2024 – Dec 2024

▸ Deployed the **MitosLOD** data pipeline on the EU BDTI infrastructure.
▸ Assisted in automating data workflows using **Apache Airflow** and **Docker**.
▸ Implemented data fetching and caching to improve retrieval efficiency.
▸ Co-authored research on E-Democracy published at EGOV 2024.

EDUCATION

B.Sc. in Computer Science | University of Macedonia 2019 – 2025

▸ Grade: **8.18 / 10**
▸ Thesis: "Development of an extendable **REST API** for access to open data of public services based on the **CPSV-AP** model"

PROJECTS

Mitos Services API | Bachelor's Thesis Implementation 2024

▸ Developed a **FastAPI** REST service for Greek public data.
▸ Built a dynamic **SPARQL** query generation engine for real-time **RDF** retrieval.
▸ Containerized the application for reproducible research deployments.

 GitHub

Homelab & Infrastructure | Docker / Linux / GitOps Ongoing

▸ Managing a self-hosted production environment using a personal server and **OCI**.
▸ Configured a **GitOps pipeline** for automated container deployment and sync.
▸ Self-hosting Identity Management (**Authentik**) and Reverse Proxying (**Traefik**).

Open eClass Android Client | Kotlin / Jetpack Compose / Android SDK 2023

▸ Developed a mobile client with offline-first support using **Kotlin**.
▸ Integrated **Room DB** for storage and **Retrofit** for API communication.

 GitHub

Foititopoli | Java / Course Team Project 2021

▸ Designed the code architecture of a Monopoly-themed game, prioritizing the separation of UI and business logic.
▸ Implemented core game mechanics and state management using the **libGDX** framework.

 GitHub

PUBLICATIONS

Using the EU Big Data Test Infrastructure to Publish MITOS Public Service Descriptions as Linked Open Data

EGOV-CeDEM-ePart 2024 | Sept 2024 | **Read (CEUR-WS)**

E. Tambouris, D. Zeginis, **G. Matziaras**, N. Stefanidis, K. Tarabanis