Nick Pappas

Fullstack & Platform Engineer

Python / FastAPI, TypeScript, Geospatial (STAC/COG), CI/CD

nick@thegreek.dev github.com/pappanick linkedin.com/in/nick-pappas-021b051a3
thegreek.dev Athens, EU citizen

Profile

Fullstack and platform engineer with four years of experience building and operating Python/FastAPI services, geospatial platforms and data pipelines. I own delivery from API design through containerised deployment and production operation, and I have integrated complex systems across organisations for EU-funded programmes.

Experience

Software & Integration Platform Engineer

Planetek Hellas (D-Orbit Group), Athens. May 2022 to present

- Designed, built and operate the backend and geospatial infrastructure for FEDERATES (European Defence Fund), integrating satellite-data services with distributed simulation systems across partner organisations. Also serve as Product Owner.
- Built the organisation's HLA/RTI distributed-simulation capability from the ground up, using Pitch pRTI and RPR-FOM; established tooling and reference implementations reused across projects.
- Designed and operate containerised microservices with Docker and Traefik, centralised identity and SSO through Keycloak, and Azure DevOps CI/CD pipelines with automated quality gates.
- Built and operate satellite-imagery processing pipelines, from ingestion to STAC-catalogued products served through a FastAPI-based geospatial platform using eoAPI, COG and pgSTAC.
- Delivered a cross-organisation IPsec VPN for secure data exchange between partner sites.
- Contribute backend, integration and production-operations engineering to DECISMAR, AXIS2 / HELEO, EOAfrica and SeaiGrass; mentor junior engineers on backend development, containerisation and CI/CD.

Skills

Languages	Python (primary), TypeScript / JavaScript, SQL, Bash
Backend & web	FastAPI, async Python, REST APIs, React, Leaflet, PostgreSQL / PostGIS
Geospatial	eoAPI, STAC, Cloud-Optimized GeoTIFF (COG), pgSTAC, GeoServer, GDAL / rasterio
DevOps & infrastructure	Docker / Compose, Traefik, Keycloak, Azure DevOps CI/CD, Git, Linux, Self-hosted operations and monitoring, Kubernetes (foundational)
Quality	Automated testing, SonarQube, Ruff, Code review, Mentoring
Integration	Distributed simulation (HLA/RTI), Cross-organisation systems integration, Satellite processing pipelines

Selected projects

Self-hosted engineering infrastructure	Built and operate a personal homelab with Docker and Traefik, GitLab CE and self-managed CI runners, Tailscale networking and automated monitoring.
pappanick/demos	Claude Code plugins. Fusion runs a local panel of AI models where one judges and the others plan, review and build.

Education

MSc Information Systems (Software Engineering major)
The American College of Greece (Deree). Coursework completed; thesis pending.

Languages

Greek	Native
English	Full professional / C2 (Cambridge)