

Miguel Silva

Web Developer

Portimão, Portugal +351 969 776 732 miguel@miguelsilva.cc miguelsilva.cc github.com/MiguelAlexS
linkedin.com/in/miguelalexsilva



PROFILE

Web developer at WKT, working on ScalarGIS, a web mapping platform used in production by Portugal's national mapping agency (DGT) and several municipalities. In under a year I went from new hire to owning whole parts of the platform: backend, frontend, and the servers it runs on. Outside WKT I build and host websites for small businesses, end to end. BSc in Computer Engineering.

EXPERIENCE

WKT – Information Systems

Nov 2025 – present

Web Developer

- Built the e-commerce of the next SNIC release from scratch (certified land registry documents): cart, government payments, automatic invoicing and digital signing.
- Migrated the whole frontend from PrimeReact to Mantine: built the shared @scalargis/ui library (components and themes) and the JSON Forms renderers for Mantine, while production kept running.
- Upgraded the client stack to React 19, Nx 22, Vite 7 and TypeScript, and closed all dependency vulnerabilities.
- Connected the platform to the national digital ID (Chave Móvel Digital) and to DGT single sign-on (Keycloak), and hardened login security.
- Infrastructure: audited the cloud servers, recovered and rebuilt a compromised server, migrated and upgraded GitLab, and moved SMOS production from Windows to Docker.

Freelance

2026 – present

Websites for small businesses

- Build multilingual, CMS-managed websites from scratch (Astro, Tailwind, Sveltia CMS) for a pet hotel, a holiday rental and a videographer. Non-technical owners edit their own content.
- Run the hosting myself: Docker images on a European VPS, nginx with strict CSP, automated backups and uptime alerts.

EDUCATION

BSc in Computer Engineering

2022 – 2025

University of the Algarve

SKILLS

Languages: Python, JavaScript/TypeScript, SQL

Backend: Flask, FastAPI, SQLAlchemy, PostgreSQL/PostGIS, REST APIs

Frontend: React, Mantine, OpenLayers, Tailwind, Astro, Nx, Vite

Infra/DevOps: Docker, Linux, nginx, Apache, VPS hosting, GitLab CI, Gitea

Practices: Platform architecture, SSO (Keycloak, Authentik), production migrations

LANGUAGES

Portuguese – native

English – fluent