

M.Hasan Yumuşak

Software & Electronics Engineer / Applied Physics

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I'm passionate about engineering in general, and about software, electronics and physics in particular. Professionally, I build fullstack web applications focused on geographic information systems. In the time left over from my day job, I develop AI-driven automation and web systems under my own brand, [Rua Systems](#).

Experience

Fullstack Web Developer — [Ankageo](#)

Ankara, Turkey · September 2022 – Present

- Worked as a fullstack developer on large-scale government and enterprise GIS projects.
- Developed key modules of the OFT (Our Future Treasure) platform — used by 1,000+ users — built for Türk Altın İşletmeleri (formerly Koza Gold Operations).
- Participated in both maintenance and redevelopment of the GTBYS project for the General Directorate of Highways, used by thousands of public-sector employees.
- Contributed to the MEB CBS application for the Ministry of National Education, covering property ownership and student population data for all schools.
- Took part in the development of the Asset Management System for Hatay Metropolitan Municipality.
- Built fullstack solutions with Angular, React, and Node.js/ExpressJS, and map infrastructure with GeoServer and OpenLayers.

Freelance Web Developer

Remote · May 2022 – September 2022

- Developed a custom inventory tracking system for an industrial client.
- Delivered lightweight solutions such as an image gallery and a web scraping bot.
- Carried out rapid development processes using TypeScript and Python.

Electronics Engineer — [Karadeniz Savunma Sanayi, Lemona A.Ş.](#)

Ankara, Turkey · December 2021 – May 2022

- Designed antenna models and performed simulations using CST Studio Suite.
- Performed reverse engineering on defense-grade electronic boards.

Game Development Intern — [Ankageo](#)

Ankara, Turkey · July 2021 – August 2021

- Developed four small-scale games using Unreal Engine 4.

Projects

Manifold — [Self-hosted workspace for one person](#)

[Rua Systems](#) · Open source (Apache-2.0) · v0.5.1 · github.com/Rua-Systems/manifold

- Services, notes, map-pinned notes and an encrypted password vault in one self-hosted app; a REST API and an MCP server for scripts and AI agents.
- Reviewed against OWASP ASVS 5.0 L1–L2 (2FA, audit log, hardened container). SvelteKit, TypeScript, PostgreSQL/PostGIS, OpenLayers, Docker.

Servitor CMS — [Self-hosted CMS for multilingual blogs](#)

[Rua Systems](#) · Open source (Apache-2.0) · v0.3.0 · github.com/Rua-Systems/servitor-cms

- Multilingual CMS in a single Docker container with embedded SQLite: block-based editor, role-based editorial workflow, scheduled publishing, WebP media library.
- Reading pages with hreflang/RSS/sitemaps/JSON-LD; a read-only REST API and HMAC-signed webhooks for headless use. SvelteKit, TypeScript, Tailwind, SQLite.

Skills

Programming Languages: C++ · C · Python · TypeScript · Bash

Scientific Computing: NumPy · SciPy · SymPy · Matplotlib · pandas · LaTeX

Frameworks / Libraries: Angular · React · NextJS · SvelteKit · ExpressJS

Databases: PostgreSQL · MySQL · SQLite · Redis · Supabase

GIS / Mapping: GeoServer · OpenLayers

DevOps / Infrastructure: Git · Docker · Coolify · Self Hosting · Mailcow · Tailscale

AI / Automation: n8n · Ollama · WordPress

Education & Certificates

Electrical & Electronics Engineering, B.Sc.

[Iskenderun Technical University](#) · Graduation: 2021

Information Technologies Certificate Program

[Middle East Technical University \(METU\)](#) · October 2021 – August 2022 · Certificate No: ODT.UEA.S2200015.186

Languages: Turkish — Native · English — Full Professional Proficiency