

Hasan Mahir Ateş

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Ankara, Turkey | Open to Relocation & Remote

PROFESSIONAL SUMMARY

Backend & AI systems architect with 7+ years of experience building backend and distributed systems across defense, IoT, data governance, and fintech domains. Current focus: AI-native platforms — RAG pipelines, LLM integration, and computer vision backends at Sports Digitale. Polyglot across Python (FastAPI), Node.js, C# (.NET), and Go, with production experience on Kubernetes, RabbitMQ, Redis, and PostgreSQL. Comfortable moving from architecture design through implementation to production operations.

TECHNICAL SKILLS

Expert (daily / production): TypeScript/JavaScript, Python (FastAPI), PostgreSQL, Docker

Production Experience: Node.js, Go, C# (.NET), Kubernetes, Redis, RabbitMQ, MongoDB, React, D3.js, AWS (EC2, S3), GCP, NGINX, Linux Server Administration

Working Professional Knowledge: Rust, C++, Kafka, Elasticsearch, RAG Architectures (LangChain), Vector Search (pgvector, MongoDB Atlas Vector Search), OpenCV, LoRA/PEFT, AWS Bedrock, PostGIS

Currently Learning: LlamaIndex, Pinecone, Weaviate

PROFESSIONAL EXPERIENCE

Sports Digitale

Software Engineer (AI & SaaS Platforms)

Remote / Istanbul, Turkey

Mar 2025 – Present

- **AI-Native SaaS Backend:** Core engineer designing the shared microservices foundation for a suite of sports-focused AI products. Node.js for orchestration, Python (FastAPI) for ML workloads.
- **RAG Pipeline Development:** Building a retrieval-augmented generation pipeline that grounds LLM responses in verified club and event data, targeting reduced hallucination in user-facing answers. Stack: LangChain, vector search.
- **Computer Vision Pipeline (PanoramaML):** Developing a panoramic football video analysis pipeline on a containerized infrastructure (Docker, RabbitMQ, Redis, Kafka, PostgreSQL, MongoDB, Prometheus, Grafana). Implementing test-driven tiling and frame processing modules.
- **Infrastructure & Ops:** GCP-based deployments, model versioning, and monitoring dashboards using the observability stack above.

Datarul

Backend Developer

Remote / Istanbul, Turkey

Jul 2023 – Feb 2025

- **Data Governance Platform (Backend):** Developed backend services for an enterprise SaaS platform connecting client databases and reporting tools, enabling automated metadata discovery and data dictionary management across SQL and NoSQL sources.
- **Polyglot Microservices:** Built services across .NET Core, Python, and Go, deployed via Kubernetes; contributed to the shared infrastructure used across multiple product modules.
- **AI-Powered PII Detection:** Integrated ML models to flag personally identifiable information and sensitive assets across connected databases, feeding compliance workflows for enterprise clients.
- **Data Lineage Visualization:** Built interactive lineage maps using React, D3.js, and RedisGraph, enabling users to trace data flow across systems for impact analysis.

Lingua Co

Full-Stack Developer

Ankara, Turkey

Aug 2022 – Jul 2023

- **Learning Path Platform:** Built a system enabling users to follow structured learning paths through the company's mobile SDK, including a workflow map and user tracking implemented via a node-editor interface.
- **Backend Architecture:** Designed the service layout around a modified clean-architecture pattern; integrated CLI scripts into the API; implemented a multi-threaded server in C# paired with an Angular/TypeScript client.
- **Client Projects:** Contributed to backend and frontend implementation for multiple client engagements during tenure.

Argos Multilingual

Software Development Engineer (Contract)

Remote / Colorado, USA

Apr 2023 – Aug 2023

- **Backend Development:** Contributed to an internal Work Management Application supporting company operations. Focused on backend features, reliability improvements, and production-load handling.
- **CI/CD Contributions:** Contributed to deployment pipeline automation using Docker and Jenkins.

Inavitas

Full-Stack Developer (IoT Analytics & GIS)

Ankara, Turkey

Oct 2021 – Aug 2022

- **IoT Analytics APIs:** Developed analytics APIs and dashboards for an industrial IoT platform processing telemetry from 1000+ field devices; owned the analytics consumption layer on top of the ingestion pipeline.
- **Geospatial Analytics:** Integrated PostGIS to enable polygon-based spatial queries for facility energy analysis, surfacing results through analytics dashboards.
- **Dashboard Development:** Built client-facing visualizations consuming time-series telemetry for real-time monitoring and historical analysis.

Redactor Interactive (Pre-Incubation)

Ankara, Turkey

Co-Founder & Lead Game Developer (Part-time)

Mar 2021 – Jul 2022

- **Multiplayer Shooter Prototype:** Co-developed a competitive 3D multiplayer shooter during a pre-incubation program. Led Unreal Engine (C++) implementation for the game client and authoritative server logic.
- **Dedicated Server Orchestration:** Containerized Unreal Engine dedicated servers and orchestrated them via Kubernetes on AWS for auto-scaling during player spikes.
- **Deterministic Networking:** Built a seed-synchronization system enabling procedural level generation in a multiplayer environment with consistent map replication across clients.

Business Intelligence Bridge Software & Defense A.Ş.

Ankara, Turkey

Full-Stack Developer → Scrum Master

Mar 2019 – Aug 2021

- **Air-Gapped Environments:** Configured CI/CD pipelines and Docker containers to run in strict offline / classified security environments — a niche valuable for regulated industries (defense, healthcare, fintech).
- **ML Profiling on Sparse Data:** Developed Scikit-Learn modules to generate user profiles from fragmented text data within a government Decision Support System.
- **Scrum Leadership:** Promoted to Scrum Master in the final year, leading sprint ceremonies and backlog grooming for a cross-functional squad of ~12 engineers; improved delivery predictability across multiple sprints.

Fabula Labs, LLC

Remote / Delaware, USA

Founder & Principal Architect

Mar 2023 – Present

- US-registered LLC for B2B engagements with international clients: backend architecture, RAG pipeline design, and cloud deployment for commercial AI systems. W-9 / MSA, USD invoicing. Available for contract engagements alongside primary employment.
- **Aurelia** (aurelia.fabulalabs.net): AI selfie analysis mobile app on the App Store and Google Play — Flutter, Supabase, RevenueCat subscriptions, Cloudflare R2, automated releases with fastlane.

EDUCATION

Hacettepe University

Ankara, Turkey

M.Sc. in Computer Animation and Game Technologies

2020 – 2022

Hacettepe University

Ankara, Turkey

B.Sc. in Statistics

2014 – 2019

LANGUAGES

Turkish – Native **English** – Professional Working Proficiency (C1) **Portuguese** – Elementary (A2) **French** – Elementary (A2)

CERTIFICATIONS & CONTINUOUS LEARNING

Currently pursuing: AWS Certified Solutions Architect – Associate (SAA-C03)

Completed coursework: DeepLearning.AI — LangChain for LLM Application Development; Hugging Face NLP Course