Uzay Sozen

AI / Full-Stack Software Engineer

Izmir - Türkiye uzaysozen@gmail.com +90 (539) 393 66 95 Portfolio LinkedIn Github

SUMMARY

AI / Full-Stack Software Engineer with an MSc in Computer Science, having the ability to rapidly architect and transition complex solutions into live production. Thrives in high-pressure, dynamic industrial settings, maintaining a "production-first" mindset while adapting to changing priorities and technical constraints. Experienced at adapting to emerging AI trends and AI-augmented development techniques to transition enterprise-grade applications from concept to production under tight deadlines.

EXPERIENCE

Klimasan - Metalfrio Solutions Manisa, Türkiye
AI/BI Specialist, Full Time Nov 2025 – Apr 2026

- Served as the technical bridge between an external AI partner and the internal R&D team to design and deploy an AI-driven system that automated BOM (Bill of Materials) creation. Managed alignment across **125+ feature inputs** and delivered **strategic reports and presentations** to gain stakeholder insights on project architecture.
- Developed a suite of three Expo (React Native) applications integrated with SAP S4HANA via custom .NET Core APIs and the NetWeaver RFC SDK.
- Engineered terminal applications for high-speed encoding of product data and serial numbers onto NFC/RFID tags, digitizing inventory tracking for **100+ exported products**.
- Built an app for real-time tracking of hardware equipment and labor allocation (employee break/work cycles), ensuring data synchronization with enterprise systems for **300+ employees.**
- Led the migration of legacy Windows IIS workloads to Docker on Linux, implementing modern CI/CD patterns that enhanced scalability and resource efficiency for enterprise .NET APIs.
- Architected Power BI dashboards for the import logistics division, transforming raw shipment data into actionable insights regarding cargo bottlenecks and time tracking.

Data Annotation Tech Remote (United States)
Software Developer (AI Trainer), Contract Apr 2024 – Mar 2025

- Evaluated and benchmarked LLM performance (e.g., OpenAI, Anthropic, Meta) across tasks like code generation, classification, and reasoning using structured test cases and prompts.
- Designed and executed **400+ LLM evaluation scenarios** involving instruction-following, performance comparison, and efficiency analysis.
- Developed testing frameworks and LLM benchmark suites covering function-calling, chain-of-thought, and agent workflows.

Semafor Technology Izmir, Türkiye
Software Developer, Internship Jun 2021 – Sep 2021

- Contributed to the development of an interactive dashboard that visualized real-time health data (heart rate, blood pressure, etc.) collected from smartwatches using .NET and JavaScript.
- Assisted in building a data streaming system that enabled the simultaneous and reliable processing of health data from over **50 wearable devices**.

EDUCATION

University of Greenwich MSc • Distinction
Computer Science London • 2023 – 2024

University of Sheffield BEng • First Class Honours
Software Engineering Sheffield • 2019 – 2022

PROJECTS

Perfumind - AI Fragrance Discovery Platform (Solo Project) Apr 2026 – Present

- Architected and shipped a full-stack AI SaaS end-to-end: Next.js web client, FastAPI/LangChain backend, and Supabase (Postgres) data layer. Deployed to a self-managed VPS via Docker/Coolify.
- Built LLM-orchestrated fragrance analysis and recommendation pipelines (LangChain, vector embeddings, UMAP similarity) covering a growing catalog of **4000+ perfumes**.
- Integrated Polar for subscription billing, PostHog for consent-gated product analytics and error-tracking, and Grafana Cloud for infrastructure monitoring and logging.
- Used AI-augmented development tools throughout (Claude Code) to accelerate implementation while independently owning architecture, code review, and production operations.

https://perfumind.com

IMDb MCP Server for AI Agents Mar 2025

- Built a scalable MCP (Model Context Protocol) server using Python and FastMCP to retrieve structured movie and TV show data.
- Developed an in-memory caching system reducing API latency by **70ms** and call volume by **50–75%**.
- Designed modular tools for AI agents to handle **100+ query types** (filtering, recommendation, retrieval).

https://github.com/uzaysozen/imdb-mcp-server

Dissertation Project: Grape Detection using ML and Computer Vision Sep 2021 – May 2022

- Developed a deep learning-based object detection model using Mask-RCNN and TensorFlow.
- Achieved an **F1 Score of 82%** at IoU 0.50 with a real-time prediction speed of **0.3 seconds.**
- Focused on segmentation accuracy and model optimization for agricultural automation.

https://github.com/uzaysozen/Grape-Segmentation-Mask-RCNN

SKILLS

Machine Learning & AI

LLM Orchestration, LangChain, Agentic Workflows, AI-Augmented Development, Prompt Engineering, Vector Embeddings, Model Evaluation, Computer Vision, Model Context Protocol (MCP)

Enterprise, Tools & Frameworks

SAP NetWeaver RFC SDK, SAP Integration, Power BI, FastAPI, Next.js, Expo, Jupyter, Git, Flutter, JWT Auth, .NET Core API

Project Management

Agile (Scrum & Kanban), Jira, Trello, Slack, Technical Documentation

Programming & Data Analysis

Python, SQL, JavaScript/TypeScript, .NET (C#), Pandas, Numpy, Scikit-learn, Tensorflow, Matplotlib, Seaborn

Cloud & CI/CD

Docker, Kubernetes, Jenkins, Github Actions, GCP, Coolify, Grafana, Cloudflare

Databases

PostgreSQL, MySQL, MSSQL, MongoDB, Supabase, Firebase

LANGUAGES

Turkish
Native

English
Fluent

German
Basic

CERTIFICATIONS

System, Cloud and Cyber Security Training Oct 2022 - Jul 2023
Bilge Adam

Oracle Computer Vision Hackathon Oct 2023
Oracle

Google Cloud Fundamentals: Core Infrastructure Training Dec 2022
Coursera