Alihan SARAÇ

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ABOUT ME

Learning and discovering new things are the most natural part of my job. I enjoy understanding how systems work and solving complex problems at the theoretical and architectural levels, without overlooking real-world needs. I regularly follow technological advancements and enjoy trying emerging innovations in my own projects. Having worked in startup environments, I'm accustomed to adapting quickly, developing agile projects, and collaborating within a team. As a full-stack engineer, I embrace end-to-end ownership of the product, both technically and structurally, and address every challenge with clear, applicable, and sustainable solutions.

WORK EXPERIENCE

PROVENCE ÜRETIM DANIŞMANLIK

FULL STACK DEVELOPER – 02/2025 – CURRENT

Eczanesitesi.com:

- I rebuilt **eczanesitesi.com**, a PHP-based news platform for pharmacists, to improve UX, speed, SEO, and maintainability.
- The project was redeveloped using **React/MUI/Next.js** on the frontend and **Java/Spring Boot/PostgreSQL** on the backend.
- I modernized the user interface, added performance-oriented animations and flows, simplified the admin panel, and automated image-editing tasks that moderators previously handled manually. As a result, site performance improved by **60%**, and more than **20,000 data entries** were migrated seamlessly between systems. I also created a CI/CD environment on a VPS server using Docker and shell scripts.

Kozmetik Okulları:

- I designed and developed from scratch the platforms **dermokozmetikokulu.com**, **otcokulu.com**, and **aromaterapiokulu.com**, which provide training in dermocosmetics, OTC, and aromatherapy.
- These platforms include blogs, role-based and subscription-based content access, and full content, user, and access-management panels.
- I managed the entire development, deployment, and maintenance lifecycle using **React, Redux, MUI, Java, Hibernate, Spring Boot, PostgreSQL, Redis, SSE**.
- I ensured that all three platforms shared a common interface structure while maintaining unique themes, content, and workflows.
- I integrated **Iyzico** for one-time and subscription payments, **Paraşüt** for e-invoicing, **fine-tuned** an **AI chatbot**, implemented subtitle and video-summary generation using the **Whisper** library by **analyzing audio extracted from videos**, and automated reminder and special-case email workflows.Sites has excel and json import/export feature for custom logics.
- I also established backup, monitoring, and alert infrastructures using **OpenTelemetry/Grafana/Prometheus**, enabled tracking of security vulnerabilities, and improved both SEO and user analytics.

PHARMAINO BILIŞIM VE DANIŞMANLIK

FULL STACK DEVELOPER – 07/2023 – 02/2025

Dermoino.com:

- Dermoino is a digital medical assistant platform for pharmacies. I built the web and desktop applications using **Vue 3, Tauri, SASS, Bootstrap**, and developed the backend as a **Node.js, MongoDB** REST API running on **Docker** with automated backups, migrations, **AWS S3** integration, real time notification and ticket system using **WebSocket,** log managment of all transactions, and custom mail services.
- The system analyzes patient Baumann skin type from QR-based custom forms, generates ingredient and product recommendations. It provides pharmacies and managers with real-time analytics on patient visits, skin-type distribution, product sales, and pharmacist performance. The platform also includes a full internal drug/product guide with advanced filtering and detailed product manual pages.
- Core features include creation and updating of products, pharmacies, and sales personnel; listing and deleting operations with advanced filters; real-time data flow; detailed analytical charting; tracking read receipts for tests; generating and printing QR advertising banners for pharmacies; Excel import/export; localization; and custom email templates (ads, announcements, etc.).
- I optimized patient-facing phone pages for UI/UX and resource efficiency.

This project, developed within the startup and due to its nascent nature, was developed using Node.js and MongoDB to facilitate adaptability to changes. Now that the project has matured, it will be rewritten within the Java ecosystem to create a stable and scalable infrastructure.

Supplecon.com:

- It has the same infrastructure as the Dermoino project, but its main focus is on athlete development rather than skin type, and it has a more detailed analysis algorithm.

BTI BILIŞIM DANIŞMANLIK YAZILIM

FULL STACK DEVELOPER – 05/2022 – 09/2022

Token Fintech B2B:

- I create a **B2B REST API** for Token Fintech Solutions using **.NET, Dapper, LDXCOM API, MySQL** to communicate with LogoERP, and implemented SSL-certificate-based authentication.

Edding Sales:

- I refactored an ERP system originally developed with PHP and JavaScript, significantly improving performance and fixing critical issues such as cross-database synchronization errors
- I reduced the heavy department/seller calculation times by 10 times by breaking down tedious and complex stored procedures, indexing them and using temporary tables and materialized views.

PROJECTS

Tahakküm

A resource-management and authentication microservice developed using **Java, Spring Boot, Hibernate, and PostgreSQL**. It provides third-party user authentication via username/password, access tokens, custom OAuth, and TOTP methods written from scratch. It includes resource-access authorization (assets, routes, CRUD operations), basic or token authentication, a TOTP and OAuth registration system, and mechanisms to control and monitor user access with role-based permissions, one-time access routes, and white/black lists.

Link https://github.com/saracalihan/tahakkum

drop-video

A full-featured video sharing/streaming platform built with an event-driven microservice architecture using **MPEG-DASH adaptive bitrate streaming**. Developed with **Spring Boot 3.4.1** and **Java 17**, the system consists of three independent microservices:
• **Auth Service** – **Tahakküm** authentication and user management
• **Video Service** – video transcoding(format and resolition transformation) with FFmpeg, metadata extraction, MPEG-DASH streaming, automatic thumbnail and second-by-second preview generation
• **Web Service** – channel and watchlist management
The services communicate asynchronously with SAGA pattern via **RabbitMQ** and run inside **Kubernetes orchestrated containers**, exposed to the outside world through an **Nginx reverse proxy** implementing an API Gateway pattern.

Holiday Platform (Freelance)

Holiday platform is a website that brings together property owners and tenants, offering a detailed interface for daily rental and holiday reservations of hotels, houses, rooms and many different residences.

- In the project, the main lines of the backend are microservices used with NX, consisting of TypeScript, Nest.js, MongoDB, PostgreSQL and AWS entries, while the interface includes React and MUI.

Link http://holidayplatform.com/

EDUCATION AND TRAINING

2019 – 2024
COMPUTER ENGINEER BSC Sakarya University

Field of study Computer Science | **Final grade** 2.9/4 GPA

LANGUAGE SKILLS

Mother tongue(s): **TURKISH**

Other language(s): **ENGLISH (B2)**

VOLUNTEERING

2019 – 2024 Sakarya/Turkiye
Mavidurak.io

- I worked at a local software community in Sakarya, from active member to head of community. I was involved in the planning, management, and sponsorship arrangements for a total of 47 in-person and online events.
- I served as a mentee in web development for one year and then spent a year mentoring new colleagues, sharing my knowledge with them.
- I served as the head of community for 2 years and then became a path finder to the new presidents.

Link https://mavidurak.github.io/

2021 – 2023 Sakarya/Türkiye
Sakarya Üniversitesi Genç TEMA

In line with the vision and mission of the TEMA Foundation, I managed activities and provided training to students at preschool, elementary school, middle school, and high school levels. I served as an educator, education manager, and vice president within the community.

SKILLS

Java | Spring Boot | JavaScript | Node.js | React | Next.js | Docker | Linux | Real Time Stream | TypeScript | MongoDB | Monitoring | Self Hosted | RabbitMQ | Reddis | WebSocket/SSE | Vue.js | Event Driven Development