



Ömer Savaş

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Gender: Male Date of birth: 1988 Nationality: Turkish

ABOUT ME

I have been in the industry for 15+ years. I have been in teams developing software and hardware products. I have written in many programming languages. I have designed **microservice architectures** that work under **high load**. I have my own open source no-code ERP project. I have the experience that a software product is not just composed of code and architecture. I am aware that engineering is about producing solutions considering the current conditions. During my long career journey, I have worked professionally in the fields of **full stack software development, dev-ops, cyber security, IOT and AI**. For the last 3 years, I have been **managing teams** developing **payment system** security software in the field of cyber security. I develop the **CloudHSM** product with the teams reporting to me and report at the CTO level.

EDUCATION AND TRAINING

[01/01/2012 – 01/01/2015] **Electrical and Electronics Engineering (Master)**
Dumlupınar University

[01/09/2007 – 01/06/2011] **Computer Engineering**
Dumlupınar University

[01/09/2005 – 01/06/2007] **Computer Technology and Programming**
Anadolu University
Country: Türkiye |

WORK EXPERIENCE

[01/11/2023 – Current] **Technical Architect and Product Owner**
Procenne Digital Security

City: İstanbul | Country: Türkiye

- Software architecture and management
- Software feature planing and road map management

[I planned and managed CloudHSM according to current technologies with the leaders of the Analysis, Development and Test teams reporting to me.]

[26/12/2022 – 01/11/2023] **Solution and DevOps Management**
Procenne Digital Security

City: İstanbul | Country: Türkiye

- Software architecture

- DevOps team leadership
- Solution architecture and Solution team leadership

[01/08/2011 – 01/01/2023]

Team Lead

Kütahya Special Provincial Administration (Government)

City: Kütahya | **Country:** Türkiye

Software development, System administration, Embedded system development

[01/01/2010 – 01/01/2011]

Freelance Developer

Agencies in Eskişehir

City: Eskişehir | **Country:** Türkiye

Developing as a freelancer web and desktop applications for agencies and companies in Eskişehir

[01/01/2008 – 01/01/2010]

Remote Webmaster

Progela IT Services

City: Eskişehir | **Country:** Türkiye

Developing web applications and corporate websites.

CREATIVE WORKS

[01/01/2023 – Current]

Cloud HSM

I designed a multi-tenant and cloud agnostic CloudHSM product for Procenne Digital Security and managed the development processes. Currently, all domestic and international customers continue to receive services from this infrastructure.

(Micro Service, Kubernetes, HSM, Pkcs11, KMIP, Cryptology, Non-blocking I/O, Postgresql, Mssql, Elastic Search, Rabbit, Kafka, React, .net C# native, Plug-in arch)

Link: <https://procenne.com/tr/products/cloud-hsm/>

[01/01/2022 – Current]

AI faulty production detection automation

As a joint R&D project, I developed computer vision automation for faulty production detection for ceramic and porcelain production lines. The system uses hybrid approaches by performing different models and cross-checking to increase accuracy in different situations. The project continues within Dumlupınar Design Technopolis.

(SAHI, YOLO, Detectron2, TF Object Detection, Huggingface)

[01/01/2017 – Current]

Angaryos (No-Code GIS/ERP)

It is an open source **No-Code ERP** platform that I have developed to free software developers from the drudgery of software. It has seen several major **version** changes over time and continues to evolve. Since it contains important solutions such as **Web Application, GIS, E-signature, API, Mobile** application, it enables even the most complex projects to be developed at high speed. I developed this whole project myself for a long time; Now, with the formation of the community, I work part-time as a **system architect and developer**.

(MicroAPI, Docker, Traefik, Php, Laravel, Angular, Java, Postgresql, PostGIS, Memcache, GeoServer, Varnish, ELK Stack)

Links: <https://github.com/mikroGovernment/angaryos> | <https://medium.com/software-development-turkey/angaryos-tanitim-63b1815d6bf>

[01/01/2019 – Current] **Artificial Intelligence Model Development**

I developed deep learning models to solve problems such as satellite photo segmentation, staff tracking device image problem detection, signage recognition for GIS, and put them into service in a scalable way.

(Python, Tensorflow, Docker, API, Colab, GCP TPU)

Links: <https://medium.com/huawei-developers-tr/derin-ogrenme-ile-uydu-foto-grafi-segmentasyonu-9b266a9a2a1a> | <https://medium.com/software-development-turkey/derin-ogrenme-hakkinda-nerede-yse-her-sey-1-91bb8ddfd0>

[01/09/2011 – 01/01/2023] **Government Information System (Management and decision support system)**

The central knowledge system that I have developed for Kütahya Special Provincial Administration. It contains all the solutions that the institution needs and provides a data source working as API for external softwares. It contains a lot of different kind of modules from official works carried out with e-signature to Geographical information system or working hours tracking system. As basis, it is a central and a multi-channelled application that contains/provides all the software that the institution needs, from showing the remaining toner amount of the printers to the amount of fuel consumed by the vehicles, from the preparation of the required payroll data for the salary of the employees to the tracking of the villages whose garbage collection is delayed. Currently, it serves directly or indirectly 40+ institutions.

I have worked as an **analyst, architect and developer** in this project, which is the entire digital transformation of the institution. I am currently working as a **team leader and developer**.

(MicroAPI, Docker, Traefik, Php, Laravel, Angular, C#, Java, Python, Tensorflow, Selenium, Postgresql, PostGIS, Memcache, GeoServer, Varnish, ELK Stack, Raspberry PI, Atmega)

Links: <https://medium.com/software-development-turkey/analogdan-dijitale-bba16f7520c9> | <https://omersavas.com/sunum/>

[01/01/2022 – Current] **KAF Publications Education And Sales Platform**

A high-traffic education and e-commerce platform similar to Udemy. I built an ultra-light infrastructure for high traffic needs. In line with the demands, the hallmark of this project was the security of the content. I designed a cloud-agnostic structure similar to Netflix and Youtube, which have their own approaches, and I was involved in the development processes.

(DASH, CDN, Widevine Google Packager, DRM, Swoole)

I also design AI tools that will promote existing products and create new sales opportunities with RAG and LLM infrastructures.

(Llama, DeepSeek, OpenWebUI, RagFlow, Huggingface)

[01/01/2018 – 01/01/2023] **Staff Time Tracker Device**

Time tracking device that I developed for Kütahya Special Provincial Administration and published as **open source**. The software, design and production are entirely mine. Currently, **100+** units have been produced and the time tracking processes of all public institutions in Kütahya are carried out through these devices.

(Raspberry PI, Arduino, API, RC522, Python, Micro C, Circuit design, 3D design and printing)

Link: <https://github.com/omersavas26/MesaiTakipCihazı>

[01/01/2016 – 01/01/2018] **On Premise Micro Data Center**

I have installed and continue to manage a micro data center with completely **open source** software for public institutions in Kütahya and the surrounding provinces. Currently, 40+ institutions receive service directly or indirectly.

(Fortigate, Proxmox, VMware, Linux, Windows, FreeNas, Ceph, Raid, Docker, Kubernetes, DHCP, VLAN, DNS)

Link: <https://omersavas.com/sunum>

[01/01/2019 – 01/01/2020] **VM Backup/Migrate Software**

Within the scope of a KOSGEB project for a company, I developed a scalable software for the migration of virtual machines in the Proxmox and VMware virtualization environment, offline backup and recovery as a new machine from backup.

(Proxmox, Proxmox API, VMware, vCenter, Esxi, Ssh, Python)

[01/01/2019 – 01/06/2019] **SmartBox for Professional Cameras**

It is the whole of hardware and software that I have developed in order to view the photos in offline digital cameras live from within the mobile application and to manage them remotely. Unfortunately, I could not put this prototype into production.

(Orange PI, Python, Wifi, API, Devre tasarımı, Ionic)

Link: <https://medium.com/@omersavas26/akilli-kamera-aparati-fb270618c354>

SKILLS

Artificial Intelligence

OpenWebUI, RAG, LLM, Ragflow | Stable Diffusion | Meta-LLaMA / GPT / DeepSeek / Qwen | SAHI / YOLO / Detectron2 / TF Object Detection / Huggingface | Python / Tensorflow / Pytorch / Autoencoder / GANs / NLP / Object Detection

Architect

Memcache / Redis / Varnish / Mqtt / Rabbit MQ | Microservice / MVC-HMVC / MVVM / CI-CD / Traefic / ELK Stack | Testing

Frontend

v8 Engine / Typescript / Angular / OpenLayers / JQuery / Saas

Backend

Rest / SOAP / API / Stateless Arch / E-sing / ORM / Php | Async Php / Swoole / Laravel / Codeigniter / C# / .Net Core / Linq / Entity Fw

Database

ORM / Mysql / Postgresql / PostGIS / Replikasyon / Normalization-Denormalization

System - Cyber Security - Cryptology

Netcat / Fiddler / Tcpdump / Http-Https | OSI Layers / DNS / VLAN / DHCP / Wireshark / Burp Suite / Nmap | Fortigate / Proxmox / Ceph / Raid / VMware / Esxi / FreeNAS / Docker / Kubernetes / strace | General Purpose HSM, Payment HSM, PKCS11, CloudHSM, PKI, Certs

General

OOP / Clean Code / SOLID-YAGNI-KISS / Design Patterns / GIS / Geoserver / Photoshop

Mobile

Flutter | Ionic

Emdbded Systems / IOT

Raspberry Pi / Orange Pi / Arduino / Atmega / NodeMCU / 16F877A / I2C / Serial bus / SPI

SKILLS

Job-related skills

1. Developing algorithms and project planing
2. Software and hardware based fast solitions
3. Software architecture and Cloud agnostic designs
4. AI - Deep learning / Image Processing / NLP
5. Following new technologies
6. Emdbded systems and microprocesor architecture
7. Network and System Administrating

Other Skills

1. Quantum programing
2. Elektronik circuit design
3. Graphic design

MANAGEMENT AND LEADERSHIP SKILLS

Product owner and digital architect

Procenne Digital Security, I first managed field teams and customer issues. Then, I worked as a digital architect and product owner for the cloud HSM product, together with the software, testing and analysis team leaders.

Software team leadership

I worked as a developer and team leader in the software development department in Kütahya Special Provincial Administration between 2019-2023.

DevOps team leadership

I was a leader and mentor in the system and network team at Kütahya Special Provincial Administration between 2019-2023.

HONOURS AND AWARDS

[01/06/2022]

3rd place in Deep Learning Coding Marathone Awarding institution: Huawei - Btk Academy

In the 2022 coding marathon organized by Huawei and BTK Academy, I was awarded the Huawei Mate Book award by solving an image segmentation problem in the field of Artificial Intelligence with a hybrid model.

LANGUAGE SKILLS

Mother tongue(s): Türkçe

Other language(s):

English

LISTENING B1 **READING** B1 **WRITING** B1

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

CONFERENCES AND SEMINARS

Coursera Deep Learning (5 Course)

Quantum Computing & Programing

CEH (Certified Ethical Hacker)

Microsoft Certified Solutions Expert

ISO27001

Various GIS certificates issued by Başarsoft, Netcad and Esri

HOBBIES AND INTERESTS

Playing the Clarinet

I have been playing the clarinet as a hobby since high school.

Quantum physics and Space

I enjoy following publications in this field.

Computer Games

I haven't been playing games for a long time, but I passed the helicopter mission in GTA Vice City in one go in 2003 :)

DRIVING LICENCE

Motorbikes: A2

Cars: B