

BERK AYDAŞGİL

PROFILE

Computer engineer with over 4 years of industry experience across technical and functional roles. Bringing structure to complex systems and clarity to the people and processes around them. From SAP consultancy across energy and manufacturing industries, to WMS development in automated warehouse environments, experienced in bridging the technical and functional sides of complex systems. Driven by the intersection of knowledge and impact, whether working independently or building something meaningful alongside others. Fluent in English and Turkish.

EXPERIENCE

Hayat 📍 Kocaeli, TR

WMS Technical/Functional Developer APR 2025 - APR 2026

- I worked on development related to performance optimizations and efficiency analysis for automated warehouse WMS and supply chain operation softwares. Worked with the team of Mecalux (Spanish WMS vendor) collaborated on the development such as warehouse location search, defragmentation and shipping stock assignment
- I developed custom software and systems to improve warehouse fragmentation, sparsity but also the stacker crane behavior for more efficient warehouse outbound movements.
- I worked on technical/functional optimizations of e-commerce, promotion, replenishment and shipping operations.
- I worked on projects that have technical debt, that are considered legacy software. Primarily consisting of Oracle SQL-PL/SQL and .Net Applications. Maintained and refactored them. Did performance optimization work on their execution.
- I managed external servers and our software configurations on it to manage various supply chain operations. This involved custom WMS related software, external integrations to the WMS such as SAP MII and many other components.

Automated Warehouse Mecalux Supply Chain Oracle SQL, PL/SQL C# Python SAP-to-thirdparty Integration

Accenture 📍 Amsterdam, NL

SAP Technical Consultant OCT 2021 - APR 2024

- I have developed a variety of SAP solutions (primarily SD, MM, FI), including ABAP GUI reports, Fiori apps from OData Services, Business Analytics reports.
- I have engineered performance-optimized solutions utilizing custom algorithms, such as duplicate detection and fuzzy search capabilities mainly driven by CDS views and AMDP procedures.
- I have orchestrated data synchronization of material master data across SAP systems (S4/HANA and R3), leveraging OOP and RFC.
- I worked on S/4HANA to Azure Data Factory integration. Developed CDS views for SAP Gateway.

ABAP CDS AMDP SQLScript Fiora OData Services S4/HANA R3 Performance Optimization

IT Consulting

- I shared my expertise on SQLScript performance optimizations at an annual global SAP event (SAP Internal Track 2022).
- I collected functional and quality requirements for a sustainable product recommendation system on GCP. I was responsible for delivering architectural design documents for cloud infrastructure and analyzing the associated operational costs.
- I collaborated with various project managers to provide answers to some of their existing feasibility questions on data warehouses and cloud automation. I researched the internals of cutting-edge technologies and attended events to consult with field experts.
- I participated in events to interact with the community and technology experts to derive answers for some of our client's and in-house questions. These were mainly related to Cloud/Data driven technologies.

Universiteit van Amsterdam & Vrije Universiteit 📍 Amsterdam, NL

Big Data and Deep Learning SEP 2018 - AUG 2021

- I did my master's thesis on the topic of benchmarking and scaling biomedical image segmentation task under U-net architecture on DAS5 super computer cluster. Designed and implemented an end-to-end deep learning benchmark to analyze U-net scalability with various distribution models.
- I wrote a systematic literature review on deep learning benchmarking that included studies from 4 to 5 years to capture the most recent progress in the field.
- I implemented an end-to-end large-scale data pipeline to detect illegal buildings in the Netherlands. Processed 1.5 terabytes of point cloud data and used a convolutional neural network and public real-estate registration data for the detection. Created a visualization to display the results of the research on the map.
- I created an interactive information visualization system for exploring the link between crime and socio-economic status in Amsterdam City Area.
- I worked on various data mining and machine learning projects, on topics such as hotel booking search ranking, mobile phone usage effects over patient mood, assessing quantified self data of sport or daily activities.

Semantic Image Segmentation Deep Learning U-net Gpipe Horovod PyTorch Python Machine learning D3.js

Cloud and Distributed Systems

- I designed and implemented a distributed sorting algorithm on AWS, Azure, Vultr, and DAS5 clusters. Compared the alternatives for algorithms and designed for high performance, strong scalability, and fault tolerance features. Finally, reported cost and performance findings and comparisons for Cloud services.
- I scaled a Flask-based web service on DAS4 super computer cluster using Docker containers. Configured its orchestration and the underlying network. Finalized this work by writing a literature review on computer clouds and peer-to-peer networks.
- I devised and delivered system architecture documents for the Berichtenbox (Message Box) app in collaboration with technical and non-technical stakeholders (Logius), establishing functional and quality requirements. This involved incorporating services of several government organizations under one managed platform for the citizens.
- I participated in weekly sessions in which I worked on designs, presentations, and seminar discussions relating to distributed systems. Designed and iterated on my design works in a weekly schedule which would be finalized with a presentation to discuss the work I have done with my colleagues. Some goals for these design sessions ranged on topics such as systems consistency, performance scaling, fault tolerance, and resource management.
- I worked on text data for an entity linking task. Linked Wikidata entities to a knowledge base hosted on an Elastic Search endpoint. Created greedy and then later more elaborate strategies to achieve higher accuracy. Finally, to increase the performance, scaled this project using Apache Spark.

Javascript Flask Docker Kubernetes YAML Redis Cassandra Requirements Engineering Software Architecture OpenMPI AWS Vultr C++ Natural Language Processing (NLP) Elastic Search Spark Spacy AWS SURFSara Hadoop Spark Tensorflow Python

University of Economics 📍 Izmir, TR

Bachelor's Thesis and Courses SEP 2013 - JUL 2017

- I researched image super-resolution through sparse coupled dictionaries for bachelor's thesis.
- I gained foundational knowledge in operating systems, algorithms, data structures, and cryptography, alongside practical experience in software design patterns.

C++ Python Wireshark Assembly C Image Super Resolution Machine Learning MATLAB

Baknet 📍 Izmir, TR

Internship JUL 2016 - AUG 2016

- I was taught about Canias ERP, gained an enhanced understanding of ERP systems and the waterfall development methodology.

Canias ERP Waterfall

BilgeAdam Technologies 📍 Izmir, TR

Microsoft Developer Bootcamp JAN 2014 - JUN 2014

- I completed a comprehensive Microsoft certified developer Bootcamp, covering desktop, web with .NET technologies.

.Net ASP.NET Microsoft SQL Server C#

EDUCATION

MSc in Computer Science **BSc in Computer Engineering**

Universiteit van Amsterdam & Vrije **University of Economics**

Universiteit **SEP 2013 - JUL 2017**

SEP 2018 - AUG 2021 **SEP 2013 - JUL 2017**

Specialised in big data technologies.



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SKILLS

Automated Warehouse

Development:

Oracle, SQL - PL/SQL, Python, C#

SAP Development: ABAP, CDS, AMDP, S4, R3

LANGUAGES

Turkish Native
English Bilingual/ C2