

Berk Aydaşgil

Profile

Berk is a computer engineer with over five years of diverse experience, including 2.5 years as an SAP consultant and 3 years in a research-based Master's program. He excels in SAP technologies and has made significant project contributions in industries such as energy, geo-data and information services, HPC and data infrastructure, and confectionery manufacturing. Berk supports non-profits by implementing robust cloud platforms like AWS and Azure. He is a passionate community contributor who shares his expertise through various speaking engagements and training sessions, including presenting at SAP SIT 2022. Berk holds a Master's degree in Computer Science, focusing on big data systems, from Amsterdam and Vrije Universities. His areas of passion include cloud technologies, large-scale data processing, performance analysis, requirements engineering, and deep learning. Fluent in English and Turkish, he is also currently learning Dutch.

Experience

Accenture

Amsterdam, NL

SAP Technical Development

SEP 2021 - Present

While simultaneously participating in the development task, I led a group of 3 technical developers to develop a large number of CDS views (140) to enable data ingestion from S/4HANA to Azure.

I have orchestrated data synchronization of material master data across SAP systems (S4/HANA and R3), leveraging OOP and RFC.

I have developed a variety of SAP solutions, including BTP Cloud, ABAP GUI reports, Fiori apps from OData Services, and Business Analytics reports. I have worked on BTP Cloud collaborations and performance optimizations.

I have engineered performance-optimized solutions utilizing custom algorithms, such as duplicate detection and fuzzy search capabilities, for Fiori apps.

I shared my expertise on SQLScript performance optimizations at an annual global SAP event (SIT 2022).

ABAP

CDS

AMDP

SQLScript

CAP

Fiori

HANA

S4/HANA

R3

BTP Cloud

High Performance Duplicate Detection

Datasphere

Cloud Solutions Engineering

SEP 2021 - Present

I joined the Azure data engineering team and worked on S/4HANA to Azure integration, Azure Data Factory, and Databricks.

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 developed a comprehensive Terraform configuration for infrastructure automation, optimizing network settings, implementing IAM security protocols, automating deployments, and managing firewall settings to enhance security and compliance.

GCP

Azure

Databricks

Azure Data Factory

Python

Java

Node.js

TypeScript

Product Recommendation System

Terraform

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

SEP 2018 - AUG 2021

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, contributing to advancements in image processing techniques.

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, Bakioğlu Holding

Izmir, TR

Internship

JUL 2016 - AUG 2016

I gained hands-on experience with Canias ERP software, enhancing 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, and mobile development with .NET technologies.

.Net

ASP.NET

Microsoft SQL Server

C#

Education

MSc in Computer Science Universiteit van Amsterdam & Vrije Universiteit SEP 2018 - AUG 2021 Specialised in big data technologies.	BSc in Computer Engineering University of Economics SEP 2013 - JUL 2017
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Amsterdam

Skills

- SAP Technical Development:**
ABAP, CDS, ADMP, Fiori, CAP, S4/HANA-R3-BTP Cloud, Datasphere

Data Engineering: Databricks, Azure Data Factory, Spark, Hadoop, Datasphere

Cloud Engineering: Terraform, AWS, Azure, GCP, Docker, Kubernetes

Programming Languages: Python, Javascript, Java, C++, C#

Databases: HANA, Redis, PostgreSQL, Elastic Search, Cassandra

Languages

Turkish	Native
English	Bilingual/ C2
German	A2

Certifications

SAP Certified Development Specialist - ABAP for SAP HANA 2.0 | E_HANAEW_18
Microsoft Azure Data Engineering Associate
Databricks Lakehouse Fundamentals
.NET Microsoft Certified Developer