

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 CS Master's program specializing in big data. He excels in SAP and cloud technologies and has made significant project contributions working in industries such as energy, geo-data and information services, and confectionery manufacturing. Berk works for non-profits and is also a passionate community contributor who shares his expertise through various speaking engagements and training sessions, including presenting at SAP SIT 2022. 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, Bakioglu 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 **BSc in Computer Engineering**
Universiteit van Amsterdam & Vrije **University of Economics**
Universiteit **SEP 2013 - JUL 2017**

SEP 2018 - AUG 2021
Specialised in big data technologies.



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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