CAHIT ÖZ

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- **Security-First:** Ensuring the highest levels of compliance and adherence to stringent security standards through systematic infrastructure hardening, proactive vulnerability scanning, and the consistent implementation of DevSecOps and CI/CD pipelines.
- **Team Leadership & Coordination:** Over 12 years of experience in leading and successfully integrating geographically distributed, cross-functional teams within complex project environments.
- More than 20 years of IT experience with a focus on designing and implementing secure, highly available, and cost-efficient solutions across AWS, Azure, and GCP.
- **Innovation & AI:** Deep expertise in the full AI lifecycle—from traditional deep learning with TensorFlow, Keras, and PyTorch to modern GenAI/LLM architectures (RAG)—driving significant gains in development efficiency and process optimization.

EXPERIENCE

SOLUTION ARCHITECT / SRE (CONTRACTOR)

SBB SWISS FEDERAL RAILWAYS (SWITZERLAND) (ORANGE BUSINESS)

April 2026 - Now

Leading the operational excellence and reliability engineering for critical application infrastructure, focusing on high availability and data-driven performance monitoring.

- **Reliability Engineering:** Define and monitor Service Level Indicators (SLIs) and Service Level Objectives (SLOs) to ensure high availability, recoverability, and efficient resource consumption of application operations.
- **Incident & Problem Management:** Perform deep-dive analysis of application disruptions and errors, implementing immediate workarounds and long-term technical fixes to maintain system stability.
- **Performance Optimization:** Track and report on application performance against defined SLOs, providing stakeholders with data-driven insights into system health and resource trends.
- **Release & Deployment Management:** Lead installation planning for application releases and actively contribute to specifications, testing, and rollout phases to ensure seamless implementation.
- **Stakeholder Coordination:** Act as the primary liaison between application users, support units, and development teams to streamline communication and resolve complex technical bottlenecks.
- **Process & Documentation:** Manage comprehensive system documentation, including operating manuals and user guides, while overseeing change requests and critical data maintenance.
- **Continuous Improvement:** Coordinate application evolution by gathering business requirements, developing solution concepts, and formalizing release agreements.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

SLIs / SLOs / SLAs | Prometheus | Grafana | Kubernetes | Docker | JIRA | XRAY | Confluence | ITIL

SOLUTION ARCHITECT / CONSULTANT (CONTRACTOR)

DSM FIRMENICH (BASEL/SWITZERLAND) (BECHTLE)

May 2025 - December 2025

Supporting the infrastructure separation initiative at dsm-firmenich as part of a corporate carve-out, scheduled for completion by the end of 2025. Focused on the migration of legacy systems and VMware-based workloads to the AWS Cloud and a secondary data center in Switzerland. Apart from technical consulting, I am also responsible for the hands-on implementation of the solutions.

- Drive the end-to-end planning and execution of server and workload migrations in a complex, multi-site carve-out environment, ensuring business continuity and minimal disruption.
- Design and implement tailored migration strategies, including lift-and-shift and replatforming approaches, aligned with organizational and technical requirements.
- Collaborate with cross-functional teams (networking, security, application owners) to assess current infrastructure, define the target state, and ensure compliance with security and regulatory standards.
- Optimize infrastructure performance, availability, and cost across hybrid-cloud and multi-data center environments.
- Provide architectural guidance and hands-on support for cloud infrastructure, automation, and monitoring.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

VMware ESXi 7 | AWS Application Migration Service (MGN) | AWS Database Migration Service (DMS) | AWS EC2 | VPC | CloudWatch | CloudTrail

SOLUTION ARCHITECT (FREELANCER)

DIE MOBILIAR (BERN/SWITZERLAND) (QIM INFO)

November 2024 - March 2025

Conceptualized and designed a Landing Zone for PowerApps applications within the Azure cloud environment.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

Kubernetes | CrossPlane | Azure | Golang

CONSULTANT, DEVELOPER (FREELANCER)

BUNDESWEHR IT (BWI)

February 2024 - November 2024

- Vulnerability Management: Leveraged CVE and NVD frameworks to identify, prioritize, and remediate security flaws, utilizing CVSS scoring to focus on high-risk exposures.
- Infrastructure Auditing: Executed comprehensive vulnerability scans across enterprise infrastructure, identifying critical weaknesses and providing actionable risk-reduction roadmaps.
- Systems Hardening: Strengthened organizational security posture by implementing rigorous hardening measures (e.g., CIS Benchmarks, OS-level security configurations) across production environments.
- Security Automation: Engineered custom automation scripts in Golang to optimize security workflows.
- Offensive Security: Conducted targeted penetration testing to simulate real-world attack vectors, validating system resilience and ensuring the effectiveness of existing controls.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

Golang | Kubernetes | DOCKER | REDHAT | SLES | NMAP | CVE/NVD | CIS-Benchmarks

CONSULTANT (FREELANCER)

MISUMI EUROPE GMBH

June 2023 - February 2024

- Coordinated AWS-related changes with stakeholders, ensuring alignment and effective communication.
- Optimized AWS resources for cost and performance, achieving on Some Services savings of %90 Percent.
- Enhanced the Disaster Recovery (DR) strategy and pipelines

- Advised development teams on designing highly available (HA) systems, promoting best practices.
- Improved the system's security posture

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

AWS Backup | Security | AWS WAF | Cloudflare | EC2 | Aurora | EKS | Apprunner | Containers | Docker | High Availability | Disaster Recovery

SENIOR TECHNOLOGY ARCHITECT

BEARINGPOINT GMBH

Februar 2023 - June 2023

Provided consulting services to clients migrating SAP systems to the cloud, focusing on AWS

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

SAP | Data Analytics | EC2 | SAP Activate | Cost Optimization | High Availability | Disaster Recovery

SOLUTION ARCHITECT

LUFTHANSA INDUSTRY SOLUTIONS

May 2022 - October 2022

- Hardened multiple environments against identified vulnerabilities, improving overall security.
- Enhanced the development environment with CI/CD pipelines using GitHub Actions, streamlining the software delivery process.
- Implemented network firewalls and a transient gateway to secure communication between VPCs and the internet.
- Integrated AWS infrastructure with APIGEE (Google's REST API Gateway) running on GCP, enabling secure API access.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

Terraform | Amazon Inspector | Amazon Code Build | Amazon Code Deploy | Amazon Code Pipeline | APIGEE

SOLUTION ARCHITECT

SIEMENS INDUSTRY SOLUTIONS

September 2019 - April 2022

- Automated and optimized cloud infrastructure creation for prospective customers.
- Developed a web portal for users to request infrastructure for POCs.
- Containerized server systems using Docker, improving portability and scalability.
- Automated recurring tasks using AWS Lambda functions, increasing efficiency.
- Implemented Infrastructure as Code (IaC) using CloudFormation and Terraform for automated infrastructure deployments.
- Created a VDI infrastructure using Workspaces and AppStream to provide secure access to the environments.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

Terraform | Amazon Inspector | Amazon Code Build | Amazon Code Deploy | Amazon Code Pipeline | AWS API Gateway | AZURE | GCP

CONSULTANT (FREELANCER)

CHRIST JUWELIERE UND UHRENMACHER SEIT 1863 GMBH

March 2019 - Juli 2019

- Rollout of Fiskalisierung in Austria for GK Cash Registers
- Requirements gathering
- 3rd. Level Support

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

GK Cash Registers

PROGRAMM MANAGER / SOLUTION ARCHITECT(FREELANCER)

LTI - LARSEN & TOUBRO INFOTECH

May 2019

Submitting a Proposal to Migrate 53 on premise SAP Servers (Prod/Dev/Test) to the AWS cloud. During this migration, 23 instances that use Oracle DB should have been transformed to SAP HANA and 30 environments migrated via Lift&Shift The main objective of the customer is to optimize the environment for cost and agility and minimize its IT footprint.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

SAP HANA | SAP ASE | Software Update Manager (SUM) | database migration option (DMO) | Cloudformation | System Manager | EC2 | Lambda | Route53 | S3 | Glacier | AWS Direct Connect | Palo Alto | Kaspersky

SOLUTION ARCHITECT/CONSULTANT (FREELANCER)

ALDI SÜD INTERNATIONAL SERVICES

January 2019

Analyzing the Onpremise and AWS Cloud infrastructure and reporting the requirements needed to fullfill the PCI/DSS 3.2.1 requirements

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

AWS | Datenzentren | SAP Hybris | SAP | ADOBE Experience Manager

PROJECTMANAGER / CONSULTANT

AMADEUS DATA PROCESSING GMBH (ERDING) (TEMPORARY EMPLOYMENT)

October 2017 - December 2018

- Ensuring that communication within the internal and external network is PCI/DSS compliant. That communication is established over TLS 1,2 only and using strong ciphers.
- Establishing systems to track customer readiness and F5 configuration monitoring.
- Coordination of remote and onsite teams that handle the Application, Server and Cloud infrastructure.
- Design of Software Solutions that are used to track vulnerabilities.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

AWS Cloud | Amazon ECS | Kubernetes | System Architecture | JIRA | Confluence | SLA | Network scanners | Nmap | Citrix | Thin / Fat-Client | TLS-Scanner | Security | Vulnerability-Scanner | Elastic Search | Kibana

DEVELOPER / PROJECT MANAGER / SOLUTION ARCHITECT

OPTIMIZE ROUTE (FOUNDER OF THE STARTUP)

March 2017 - October 2017

- The optimized routes were then transferred to the phone of the driver (The Ionic framework was used to establish a solution for iPhone, Android and Windows based Phones)
- Development of a Software Solution that optimizes destinations that are entered through an API either based on Time or Distance
- For scalability the Google FIREBASE database was used.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

Google Maps | Google Cloud Platform | Microservices | Google Functions | Docker | Google Firebase | IONIC Framework | PHP

Node.JS | Angular JS | Maria DB | FIREBASE | HTML | CSS | Java Script

PROJEKT MANAGER

GK SOFTWARE AG (HOME OFFICE)

January 2016 - March 2017

- Responsible for the design of the Application and Technology Architecture and managing their implementation for the Retail sector.
- Leading workshops to analyze the IS State and gather customer requirements.
- Monitoring and Reporting the project status, ensuring that the project is within the defined budget, quality and proceeding according to plan.
- Responsible for the delivery of Licenses, Software and integrating our systems to services provided by 3rd parties.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

System Architecture | JIRA | Confluence | SAP | SAP-HANA | Oracle | MS-SQL | Java | IIS | Tomcat | NetWeaver | POS | Label and Poster Printing | Scale | Self-Checkout

MILITARY SERVICE

TURKISH MILITARY (ISTANBUL/TURKEY)

December 2014 - May 2015

SOLUTION ARCHITECT / PROJEKT MANAGER / TEAM LEADER / SOFTWARE DEVELOPER

UNIFY INC. / ICTERRA INFORMATION & COMMUNCATIONS A.S. (ANKARA/TURKEY)

July 2008 - December 2014

- Gathering requirements and designing the System and Software Architecture.
- Problem management, Incident Management and ensuring that they are solved within the time frame specified by the SLA.
- Working in multicultural environment acting as single point of contact between Product Owners across Europe and the Development and Test Teams in Turkey.
- Designing, preparing and updating the required documents, tools and reports informing stakeholders about the Project status.
- Ensuring that the customer system environment (CMDB) is kept up to date.
- As a Product Owner was responsible for developing a new Software Solution. (modernisation of an existing system)

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

Product Owner | BPMN | SDLC | SLA | KPI | VoIP | SIP | HFA | TDM | Unified Communications | C | C++ | ECL | Java | PHP | Perl | Soft Clients

GLOBAL VENDOR SUPPORT / SERVICE MANAGER

SIEMENS ENTERPRISE COMMUNICATIONS (ANKARA/TURKEY)

March 2007 - July 2008

- Responsible for two Software Applications to enhance customer satisfaction.
- Problem and Incident Management, Root cause analysis, release Management.
- Ensuring that problems were solved, within the times defined by the SLA.
- Regular reporting regarding for Management about Incidents and Problems.
- Requirements gathering.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

ITIL | SLA | User Management | Fault Management | Quality of Service Management | (BSS/OSS) | Java

PROJECT MANAGEMENT / SOFTWARE DEVELOPMENT SPECIALIST

UZEL HOLDING (ISTANBUL/TURKEY)

February 2005 - March 2007

- Was responsible for the ERP upgrade of a newly Acquired German company and its integration with the SAP system.
- Responsible of elevating the level of services provided by the IT department using COBIT and ITIL
- Implementing solutions to automate processes in Automotive Manufacturing.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

COBIT | ITIL | IT Service Management | Project Management

SOFTWARE DEVELOPMENT ENGINEER

SFS (ISTANBUL/TURKEY)

August 2004 - February 2005

Responsible for enhancing their Software Solution based on customer Requirements.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

Visual Basic 6 | ASP | .NET | Jasper Reports | UML

AUTOMATION PROGRAMMER

AMA SYSTEMS GMBH – PFORZHEIM

January 2002 - March 2004

Porting a Software Monitoring Server System, running under HP-UX, to a Server-Client System that would, on the client side run on Windows Desktop Computers. The system was used to evaluate the Quality of the spraying process of Automobiles.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

PASCAL | DELPHI | C | C++ | UML

TUTOR

OFFICE OF LIFELONG LEARNING (EDINBURGH/UK)

October 1999 - July 2001

Giving lectures on the following subjects

- Visual Basic for Beginners
- Visual Basic for experienced programmers
- Programming for the Web

PROJECTS

AI-POWERED APPLICATION DEVELOPMENT

PERSONAL PROJECT: (HTTPS://CAREER.CAHITOZ.COM)

November 2025

- Actively developing an AI-powered web application to demonstrate and refine expertise in cutting-edge generative AI integration and cloud-native architectures.
- Leveraged AI-Powered Development Tools (e.g., Firebase Studio) to rapidly build and deploy the application, demonstrating a commitment to maximum development efficiency.
- Utilized the Gemini API within a Retrieval-Augmented Generation (RAG) architecture to 'ground' the model in user-specific data, ensuring personalized and accurate cover letter generation.
- Implemented a modern, scalable serverless stack to ensure reliable and global delivery, with the architecture designed for future AIOps integration for proactive management.
- Architected the application using a full-stack approach, focusing on security, scalability and performance.

USED TECHNOLOGIES, TOOLS AND METHODOLOGIES

Gemini | LLM | GenAI | Generative AI | n8n | Vector Databases | NLP | Next.js | Firebase | Google Cloud Platform (GCP) | AI-Powered FinOps | RAG Architecture

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EDUCATION

B.SC. SOFTWARE ENGINEERING

UNIVERSITY OF EDINBURGH

Graduated Dec 2001

DIPLOMA - COMPUTER PROGRAMMING

EASTERN MEDITERRANEAN UNIVERSITY

Graduated July 1998

SKILLS

CLOUD & INFRASTRUCTURE

AWS (Expert) | Azure | GCP | Kubernetes (CKA) | Terraform / IaC | Microservices | Serverless (Lambda/Functions)

SECURITY & COMPLIANCE

DevSecOps | CIS Benchmarks | Hardening | SAST/DAST/IAST | Penetration Testing | Vulnerability Scanning

DEVELOPMENT

Go | Python | Java | NodeJS | C/C++ | React / Angular | PHP

DATA & STORAGE

Oracle | PostgreSQL | DynamoDB | Aurora | Firebase | Vector DBs (RAG)

METHODOLOGIES & LEADERSHIP

- ✓ Cross-Functional Team Leadership
- ✓ Agile / Scrum / Kanban
- ✓ CI/CD Pipeline Automation
- ✓ Requirements Engineering
- ✓ Datacenter Migration

CERTIFICATIONS

- **DeepLearning.AI Certificates**
- **AWS Solutions Architect Professional**
- **SAP on AWS Speciality**
- **Data Analytics Speciality**
- **AWS Security Speciality**
- **Microsoft Azure Fundamentals**
- **PRINCE2 Practitioner**
- **Certified Kubernetes Administrator**
- **Kubernetes and Cloud Native Associate**
- **Google Badges**
- **Product Owner**
- **Scrum Master**
- **ITIL Foundation (EXIN)**
- **Modelling with UML (MID Akademie)**
- **Prozess Modelling and Optmization with BPMN 2 (MID Akademie)**
- **HIPATH4000 for Consultants (Siemens)**
- **AWS Solutions Architect Associate**

Full digital CV and portfolio available at www.cahitoz.com