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Top Skills

Gen-AI
MCP
Retrieval-Augmented Generation (RAG)

Languages

English (Professional Working)

Certifications

Machine Learning Feature Engineering
VMware vSphere: Install, Configure, Manage 5.0
Fundamentals of Machine Learning and Artificial Intelligence
Developing Machine Learning Solutions
ITIL

Gönenç Aydın

Cloud Eng. Manager @ EPAM | LLMOps & AI-Powered SDLC Leader | Architect of Multi-Agentic, Agentic RAG, MCP & Context/Prompt Systems | Founder @ Intellecta | PhD (Philosophy) | Spinozist | Hegelian | Whiteheadian
Istanbul, Türkiye

Summary

Results-driven professional with 20+ years in DevOps, Software Development, and Cloud Engineering Management. Currently leading AI-Powered SDLC Management and Consultancy, integrating LLMOps, AIOps, and Multi-Agentic Architectures to design adaptive, self-evolving technological ecosystems.

Rooted in systems thinking, Spinozist holism, and autopoietic design, I view IT infrastructures as living, interdependent systems — where each component continuously sustains, learns from, and transforms the whole.

My research in philosophy and social sciences deepens this perspective, bridging human cognition, organizational dynamics, and AI autonomy.

Through this interdisciplinary lens, I aim to architect resilient, intelligent, and ethically coherent systems that align technological innovation with human and organizational purpose.

Experience

EPAM Systems
Cloud Engineering Manager
September 2025 - Present (3 months)
Istanbul, Istanbul, Türkiye

Innovative engineering leader driving AI-powered cloud transformation and agentic automation initiatives across global enterprise ecosystems. Combines strategic delivery management with deep technical expertise in Cloud, DevOps, and AIOps to build resilient, self-optimizing, and intelligent platforms that empower business agility and operational excellence.

Drives enterprise cloud transformation by integrating AI-powered SDLC, agentic automation, and advanced DevOps practices across AWS, Azure, and hybrid environments.

Leads Agentic Cloud Management through multi-agent orchestration enabling predictive scaling, anomaly detection, and autonomous optimization of cloud resources.

Implements declarative infrastructure using Terraform, Helm, and ArgoCD to ensure consistency, compliance, and delivery agility across distributed systems.

Architects AI-augmented CI/CD pipelines that embed ML and LLM intelligence for automated testing, risk detection, and quality prediction within delivery loops.

Manages and mentors cross-functional Cloud, DevOps, and MLOps teams, fostering technical excellence, psychological safety, and continuous innovation culture.

Acts as strategic liaison with clients, translating business goals into scalable cloud strategies, ensuring KPI alignment, transparency, and delivery accountability.

Drives Agentic Delivery & Project Management using autonomous agents for workflow coordination, sprint forecasting, and delivery analytics.

Provides consultancy and architectural guidance in AIOps, FinOps, and MLOps enablement to accelerate AI integration and operational intelligence across enterprises.

Achieves measurable outcomes through optimized cloud performance, reduced operational complexity, and data-driven automation maturity.

Intellecta Consulting Solutions
Founder@Intellecta Solutions
December 2024 - Present (1 year)
Almanya

I'm the founder of Intellecta Solutions, a technology consultancy focused on helping businesses accelerate innovation through smart automation, secure cloud architectures, and AI-driven solutions.

With deep experience in fintech, insurance, and enterprise-scale platform management, I specialize in:

DevOps & MLOps Consulting
CI/CD pipeline optimization, cloud-native delivery, automation, and resilient infrastructure design.

AI-Powered Integration & Automation

Implementing AIOps and MLOps to bring intelligence into operational workflows—driving efficiency, observability, and predictive capabilities.

Architecture & Digital Security

Delivering enterprise architecture, zero-trust frameworks, and AI-enabled DevSecOps strategies for modern organizations.

Strategic Advisory & Innovation

Partnering with companies to solve complex engineering problems, implement best practices, and align tech strategies with business goals.

I'm passionate about empowering teams, nurturing continuous improvement, and applying philosophical thinking to leadership, innovation, and responsible AI adoption.

Let's connect if you're building something meaningful in the tech space—or looking to evolve your operations with intelligent, scalable, and secure solutions.

OBSS

DevSecOps And Cloud Operations Manager

May 2019 - October 2024 (5 years 6 months)

OBSS is a technology consultancy and solutions provider specializing in delivering end-to-end software development, IT services, and digital transformation solutions for finance, insurance, and public sector enterprises.

Key Achievements & Responsibilities:

- Led a DevOps team of 11 engineers, driving operational efficiency and cloud scalability for fintech and insurance platforms.
- Designed and optimized CI/CD pipelines using Bitbucket, Azure, GitLab, GitHub, Jenkins, Kubernetes, and ArgoCD, improving deployment speed by 40%.
- Spearheaded cloud environment automation with AWS and Azure, reducing infrastructure costs by 20%.

- Implemented MLOps solutions using GitLab MLOps Pipeline, OpenShift AI, MLflow, Airflow, and DVC, enabling seamless AI model deployment and monitoring.
- Developed scalable backend services and APIs with Python, Node.js, Go, and C#.
- Integrated and fine-tuned large language models (LLMs) such as GPT and BERT for chatbot solutions, content generation, and recommendation systems, improving customer engagement by 25%.
- Enhanced database performance and security by architecting MySQL, SQL Server, PostgreSQL, and AuroraDB solutions.
- Developed scalable backend services and APIs with Python, Node.js, Go, and C#.
- Deployed AI-driven observability tools using OpenAI APIs, Hugging Face Transformers, and LangChain to automate anomaly detection and predictive analytics.
- Mentored and coached senior and junior engineers, fostering technical growth and leadership.

Enuygun

DevOps And Systems Manager

June 2018 - May 2019 (1 year)

Istanbul, Turkey

Enuygun.com is a leading online travel platform, offering price comparisons and booking services for flights, hotels, car rentals, and insurance.

Key Achievements & Responsibilities:

- Optimized CI/CD pipelines and automated build/test environments, accelerating software delivery by 30% while incorporating advanced scripting in Python and Go to enhance deployment workflows.
- Led a cloud migration initiative, reducing downtime and increasing system reliability through scalable architecture designs, leveraging AWS ECS/Fargate and Azure solutions. Designed migration

strategies using Visual Studio for application refactoring and modernization.

- Managed disaster recovery planning, achieving 99.9% uptime with failover clustering and load balancing solutions. Architected disaster recovery solutions using multi-region AWS services and Azure Site Recovery, ensuring seamless failover capabilities.
- Implemented Kubernetes and AWS ECS/Fargate containerization strategies, improving deployment flexibility. Enhanced container orchestration with Helm charts and Terraform modules, ensuring scalability and consistency across environments.
- Directed automation processes with Terraform, Ansible, and Puppet, reducing manual intervention by 50%. Developed custom automation scripts in Python for infrastructure provisioning and monitoring.
- Increased system uptime by 25%, ensuring consistent service availability and enhancing user experience.
- Enhanced team productivity by 30% through implementing GitOps practices and streamlined CI/CD processes.
- Collaborated as a solutions architect, creating end-to-end architectural designs for cloud-native applications, ensuring alignment with business goals and optimizing resource utilization

Elasticsearch Consulting
DevOps Field Manager
May 2016 - June 2018 (2 years 2 months)
Berlin, Germany

Elastic (the company behind Elasticsearch) is a global technology company that provides open-source and commercial software solutions for search, logging, analytics, and data visualization. Its flagship product, Elasticsearch, is a powerful, scalable search engine that is widely used for applications that require real-time search, indexing, and analytics of large datasets. It is built on the Apache Lucene library and allows for fast, distributed search capabilities across vast amounts of unstructured and structured data.

Key Achievements & Responsibilities:

- Achieved a 40% reduction in deployment errors by introducing comprehensive DevOps and DevSecOps training programs, focusing on secure coding practices, vulnerability scanning, and compliance automation
- Managed and optimized data storage solutions using relational databases like SQL Server, MySQL, MariaDB, and NoSQL platforms like Amazon DynamoDB.
- Integrated CI/CD best practices using Jenkins, Puppet, and SonarQube, streamlining software deployment while incorporating automated security checks and code quality analysis.
- Utilized a variety of programming languages such as C, Java, Ruby on Rails, C#, and Python to influence core engineering processes, with a focus on building secure and efficient codebases..
- Designed and executed scalable cloud solutions using AWS services (EC2, S3, Kinesis, CloudWatch), improving data processing efficiency and implementing IAM policies for enhanced access control.
- Collaborated with IaaS/PaaS solutions such as Amazon EC2, S3, Kinesis, and CloudWatch to build robust test scenarios,integrating Terraform and Ansible for automated infrastructure provisioning and configuration management.
- Implemented DevSecOps strategies, including automated vulnerability scanning, compliance checks, and dependency management using tools like OWASP Dependency-Check, Snyk, and HashiCorp Vault, ensuring secure and reliable application deployments.

TEGV - Türkiye Eğitim Gönüllüleri Vakfı
Technology Solutions Manager
October 2014 - May 2016 (1 year 8 months)
Istanbul, Turkey

TEGV (Turkish Education Volunteers Foundation) is a non-governmental organization in Turkey focused on providing educational opportunities and

support to underprivileged children. It aims to bridge the gap in education by empowering young volunteers to teach and mentor students in various subjects.

Key Achievements & Responsibilities:

- Led cross-functional teams to design and implement a hybrid DevOps infrastructure for seamless CI/CD pipelines, leveraging tools like Jenkins, GitLab CI/CD, and Capistrano and Octopus Deploy for automated deployments.
- Optimized the IaaS platform to enhance scalability, performance, and security using AWS EC2, Azure Virtual Machines, and Google Cloud Compute Engine, while integrating CloudFormation and Terraform for infrastructure as code (IaC).
- Managed the migration of critical systems to the cloud, ensuring 100% uptime and disaster recovery capabilities with failover clusters, multi-region AWS setups, and Azure Site Recovery
- Developed automation scripts using Python, Bash, and PowerShell to streamline IT operations, reducing manual workloads by 40%. Automated repetitive tasks with tools like Ansible and Chef for configuration management.
- Collaborated with cross-functional teams to develop and deploy scalable educational software solutions using Docker for containerization, Kubernetes for orchestration, and Visual Studio for application development
- Implemented monitoring solutions with Prometheus, Grafana, Datadog, and AWS CloudWatch to ensure continuous system availability and performance tracking, enabling proactive issue resolution.

DevOps Manager

May 2010 - May 2014 (4 years 1 month)

Istanbul, Turkey

Hobim Digital is a technology solutions company based in Turkey, specializing in providing IT services and software solutions. The company offers a wide range of services, including system integration, cloud solutions, IT infrastructure management, and software development. With a focus on innovation and customer satisfaction, Hobim Bilgi İşlem delivers tailored solutions to meet the specific needs of businesses across various industries, aiming to enhance operational efficiency and digital transformation.

Key Achievements & Responsibilities:

- Developed and executed IT roadmaps aligning with business needs, optimizing system performance and security using network and systems engineering tools such as Cisco ACI, Nagios, SolarWinds, and VMware vSphere to ensure robust infrastructure management.
- Led enterprise-wide cloud adoption strategies, leveraging AWS S3 Glacier, Azure Blob Storage, and Google Cloud Storage to improve data accessibility, storage efficiency, and scalability, while implementing multi-cloud architectures for redundancy and cost optimization.
- Designed and managed large-scale archival storage solutions, ensuring data integrity and high availability using C#.NET, Java, SQL Server, and PostgreSQL. Integrated tiered storage solutions and data deduplication techniques to enhance performance and reduce costs.
- Implemented automation frameworks using Python, PowerShell, and Ansible, streamlining document processing workflows and reducing operational costs by 30%. Automated repetitive tasks such as data migration, archival, and reporting.
- Oversaw compliance with industry security standards, including ISO 27001, NIST, HIPAA, and GDPR, ensuring proper data governance, secure access controls, and regulatory adherence across all IT systems.

- Optimized system performance and reliability, implementing load balancing solutions with NGINX and HAProxy, and ensuring high availability through failover clustering and disaster recovery planning.

YKS

Senior Software Architect

January 2008 - May 2010 (2 years 5 months)

Istanbul, Türkiye

YKS Technology Services, as an IT services provider, offers a range of services tailored to meet the diverse needs of businesses. IT service channels that the company offers, is mostly based on onprem/cloud migration/management services.

Key Achievements & Responsibilities:

- Designed and implemented scalable network infrastructure to support enterprise applications using Cisco Nexus switches, Juniper routers, and VMware NSX. Integrated load balancers such as F5 BIG-IP and HAProxy to ensure high availability and fault tolerance.
- Optimized database schemas and query performance, enhancing application efficiency by leveraging SQL Server, PostgreSQL and mysql utilized tools like pgAdmin and SQL Profiler to identify and resolve performance bottlenecks.
- Implemented security best practices, ensuring compliance with industry standards such as ISO 27001, SOC 2, and PCI DSS. Deployed firewalls, Intrusion detection systems (IDS) like Snort, and vulnerability scanners such as Nessus and Qualys
- Integrated CI/CD workflows to automate software development and deployment processes.
- Prepared written materials for documenting activities and conveying information.

Software Developer

April 2005 - June 2007 (2 years 3 months)

Istanbul, Turkey

Honeyhome Automation is a technology company that specializes in providing smart home solutions designed to enhance convenience, security, and energy efficiency. Their range of automation services includes smart lighting, temperature control, security systems, and home entertainment, all managed through a centralized platform or mobile app. Honeyhome Automation integrates Internet of Things (IoT) devices to create intelligent, user-friendly systems that allow homeowners to control and monitor their home environment remotely.

Key Achievements & Responsibilities:

- Developed and deployed automation software solutions in C#.NET and C+ +.NET, enhancing smart home functionalities by integrating with IoT devices, sensors, and platforms.
- Maintained and optimized software performance, ensuring a seamless user experience through profiling tools like dotTrace, Visual Studio Profiler, and PerfMon to identify and resolve performance bottlenecks.
- Implemented and optimized SQL Server and Oracle database solutions, improving data management and retrieval performance by designing efficient schemas, stored procedures, and query optimizations. Utilized tools like Oracle SQL Developer and SQL Server Management Studio (SSMS) for database tuning and maintenance..
- Tested and maintained software products to meet customer requirements and tenders.
- Developed applications in Python and JavaScript, enhancing backend and frontend functionalities for automation systems.

Education

FAU Erlangen-Nürnberg

Doctor of Philosophy - PhD, Semantics, Reasoning and Coordination Technologies · (May 2024 - May 2027)

Istanbul University

Master of Science - MS, Electrical and Electronics Engineering · (2005 - 2009)

Yildiz Technical University

Bachelor's degree, Electrical and Electronics Engineering · (2000 - 2005)