

Abdallah Attia

Principal Cloud Architect | AWS & Azure | Platform Engineering | AI & Data Platforms | Security & DevOps

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CORE SKILLS

Cloud & Architecture: AWS, Azure, landing zones, multi-account strategy, solution architecture, cloud strategy, FinOps, cloud migration, networking.

AI/Data Enablement: Data ingestion, streaming data pipelines, data annotation, data governance, ML workload enablement, SageMaker, Kinesis Video Streams, AI/data platform architecture.

DevOps & Platform: CI/CD, platform engineering, Argo CD, Docker, Kubernetes, Amazon EKS, Helm.

IaC & Automation: Python, Terraform, CloudFormation, Bicep, ARM Templates, AWS CDK, GitHub Actions, GitLab CI, Azure DevOps.

Security & Governance: IAM, Entra ID, Control Tower, AWS Organizations, Config, CloudTrail, security by design.

Observability & Operations: CloudWatch, Grafana, ELK, Datadog, Sysdig, Opsgenie, incident response.

CERTIFICATIONS

Microsoft Azure:

- Azure Solutions Architect Expert
- Azure Administrator Associate
- Azure Data Fundamentals
- Azure Fundamentals

AWS:

- Solutions Architect Professional
- DevOps Engineer Professional
- Security Specialty
- Data Analytics Specialty
- Machine Learning Associate
- Solutions Architect Associate
- SysOps Administrator Associate
- Developer Associate
- AI Practitioner

LANGUAGES

Arabic (native)
English (Fluent)
Danish (beginner)

PROFILE

Principal Cloud Architect with 15 years of experience in IT, including 7 years focused on cloud architecture across AWS and Azure. I specialize in designing secure, scalable, cost-efficient cloud platforms that connect business strategy with practical engineering delivery.

My background combines cloud architecture, platform engineering, DevOps automation, security, data platforms, and AI/ML workload enablement. I have led cloud-native initiatives across SaaS, video management, retail, and technology environments, working with organizations such as Milestone Systems, LEGO, Agillic, and Carrier.

At Milestone Systems, I led the cloud architecture for Project Hafnia, a collaboration with NVIDIA focused on enabling visual AI model development using high-quality, compliant video data. The project involved designing a secure and scalable AWS platform for data ingestion, storage, annotation, machine learning workflows, governance, and operational reliability.

I bring a hands-on architecture style, strong AWS and Azure expertise, and a practical DevOps mindset. My strength is turning complex technical challenges into clear architecture decisions, automated platforms, and cloud solutions that are secure, reliable, and ready to scale.

WORK EXPERIENCE

Cloud Solutions Architect	<i>Consultant, Denmark 'DK', May 2025 - Present</i>
Principal Cloud Architect	<i>Milestone Systems, DK - Jan 2022 - Oct 2024</i>
Cloud Architect Consultant	<i>Knowit, DK - Oct 2021 - Aug 2022</i>
Senior Cloud Engineer	<i>LEGO, DK - May 2021 - Oct 2021</i>
Cloud Operations Engineer	<i>Agillic, DK - Aug 2019 - May 2021</i>
IT Operations Engineer	<i>Simplesite, DK - Sept 2018 - Aug 2019</i>
Lecturer	<i>Kings College, Malaysia - Dec 2017 - July 2018</i>
IT Infrastructure Engineer	<i>Sana Technology, Egypt - 2011 - 2017</i>

EDUCATION

MSc Cloud Computing

Munster Technological University, Ireland - 2021

Graduate Diploma Computer Science

Arab Academy for Science, Technology, Egypt - 2017

B.Sc Bachelor Information Systems

High Institute for Computing and Information systems, Egypt - 2010

SELECTED PROJECTS & IMPACT

Cloud Solutions Architect

Consultant, Copenhagen - May 2025 - *Present*

Independent cloud architecture consultant supporting organizations with cloud strategy, solution design, infrastructure modernization, automation, and secure cloud platform delivery.

Key contributions:

- Provide cloud architecture guidance across AWS and Azure environments, with focus on scalable and secure platform design.
- Assess existing cloud setups and identify opportunities to improve reliability, automation, cost efficiency, and governance.
- Design practical cloud solutions covering infrastructure, networking, identity, monitoring, security, and DevOps workflows.
- Support teams in adopting Infrastructure as Code, CI/CD pipelines, and operational best practices.
- Bridge business needs and technical execution by turning high-level requirements into clear architecture decisions.

Principal Cloud Architect

Milestone Systems, Copenhagen - January 2022 - October 2024

Project: Data Insights Platform - Project Hafnia

Led the cloud architecture for Project Hafnia, a strategic collaboration between Milestone Systems and NVIDIA focused on enabling visual AI model development using high-quality, annotated, and regulation-compliant video data. Owned the architecture from concept through production deployment, serving as the primary architecture authority and technical advisor throughout the project lifecycle.

Key contributions:

- Led end-to-end cloud architecture for an enterprise AI and data platform on AWS and Azure, enabling data scientists and engineers to build, train, and operationalize visual AI models using compliant video data.
- Designed a multi-account AWS foundation using AWS Organizations, Control Tower, centralized logging, monitoring, security policies, and cost governance.
- Architected secure integration between on-premises infrastructure and AWS, with focus on network security, controlled access, and reliable data movement.
- Designed cloud-native data workflows for large-scale video ingestion, preparation, annotation, labeling, and machine learning training pipelines.
- Enabled AI/ML development workflows through SageMaker and Kinesis Video Streams, providing a scalable foundation for visual AI model training and experimentation.
- Evaluated and integrated third-party tools for video analytics and data annotation, ensuring alignment with security, performance, and compliance requirements.
- Led refactoring and re-platforming activities to improve cloud-native scalability, operational reliability, and maintainability.
- Advanced DevOps automation practices, helping reduce manual deployment effort and improve delivery consistency.
- Served as technical advisor to project leadership, aligning business objectives, stakeholder requirements, engineering delivery, and cloud architecture strategy.
- Contributed to an AWS partnership initiative involving a forthcoming AWS service planned for public release.

Cloud Architect Consultant

Knowit, Copenhagen - October 2021 - August 2022

Client: Milestone Systems - Project Hafnia

Worked as a senior cloud architect consultant supporting the early architecture, design, and implementation of Project Hafnia, a data insights and AI-enablement platform for enterprise video data.

Senior Cloud Engineer

LEGO, Copenhagen - May 2021 - October 2021

Project: Distribution Centers Hub Solution

Contributed to the development and deployment of cloud infrastructure and automation for LEGO's distribution center platform, with focus on Infrastructure as Code, CI/CD, Kubernetes operations, security, and deployment reliability.

Key contributions:

- Developed and managed AWS infrastructure using Terraform, enabling repeatable, scalable, and reliable environment provisioning.
- Built and maintained CI/CD pipelines using GitHub Actions and Argo CD to support automated deployments with reduced manual effort.
- Supported containerized workloads on Amazon EKS and Kubernetes, improving deployment consistency and scalability.
- Used Helm charts to package, configure, and deploy Kubernetes applications more efficiently.
- Applied AWS IAM and security best practices to strengthen access control and infrastructure security.
- Integrated monitoring and incident response tooling such as Sysdig and PagerDuty to improve operational visibility and response.
- Worked closely with engineering teams to improve cloud delivery workflows and platform reliability.

Technologies: AWS, Amazon EKS, Kubernetes, Terraform, GitHub Actions, Argo CD, Helm, AWS IAM, AWS RDS MySQL, Sysdig, PagerDuty.

Cloud Operations Engineer

Agillic, Copenhagen - August 2019 - May 2021

Project: Cloud Modernization, Migration and Operations

Led and supported major AWS cloud modernization initiatives across migration, automation, monitoring, security, disaster recovery, and data transfer solutions. Helped transform the cloud operating model and improve cost efficiency, reliability, and scalability.

Key contributions:

- Planned and executed AWS migration initiatives for key business systems, including IBM SPSS Modeler and content delivery workloads.
- Designed scalable and cost-efficient AWS architectures, contributing to an 85% reduction in operational costs while improving performance and scalability.
- Built secure data streaming and transfer solutions using AWS services, supporting reliable movement of large data volumes across distributed systems.
- Established multi-account AWS governance using AWS Organizations and Control Tower to improve structure, compliance, and operational control.
- Implemented centralized monitoring using CloudWatch and Grafana, improving visibility into platform performance and operational health.
- Designed disaster recovery patterns and automated CI/CD pipelines using Terraform and GitLab CI to improve deployment speed and reliability.
- Strengthened security using IAM, Secrets Manager, AWS SFTP, tagging standards, and compliance-focused operational practices.
- Supported cloud operations, incident response, and platform improvements across production SaaS environments.

Technologies: AWS S3, SQS, SNS, IAM, Lambda, EMR, VPC, API Gateway, CloudFront, RDS, EKS, Step Functions, AWS Organizations, Control Tower, CloudWatch, CloudTrail, Grafana, Terraform, Docker, GitLab CI, Opsgenie, Sysdig, AWS Transfer Family.

IT Operations Engineer

SimpleSite, Copenhagen - September 2018 – August 2019

Supported IT operations, systems administration, and cloud-related infrastructure activities across Windows, Linux, identity, collaboration, and domain services.

Key contributions:

- Administered Windows Server and Linux environments, supporting stability, availability, and day-to-day operations.
- Managed Active Directory, SharePoint, DNS, and general system administration tasks.
- Supported troubleshooting, performance monitoring, system maintenance, and operational improvements.
- Assisted with basic cloud solutions and infrastructure enhancements to support business needs.
- Provided technical support and operational documentation across internal IT systems.

Technologies: Windows Server, Linux, Active Directory, SharePoint, DNS, Cloud Services, Systems Administration.

Lecturer

Kings College, Malaysia - December 2017 - July 2018

Delivered teaching and academic support in IT-related subjects, helping students develop practical understanding of technology, systems, and computing concepts.

Key contributions:

- Prepared and delivered lectures, practical sessions, and learning materials for IT and computing-related topics.
- Supported students in understanding technical concepts through examples, exercises, and applied learning.
- Strengthened communication, presentation, and mentoring skills through classroom delivery and student support.

IT Infrastructure Engineer

Sana Technology, Egypt - 2011 – 2017

Designed, deployed, and supported IT infrastructure across servers, networks, storage, security, and operational support.

Key contributions:

- Designed and deployed IT infrastructure including servers, networks, storage, and related enterprise systems.
- Managed hardware, software, operating systems, and business-critical infrastructure components.
- Implemented backup, disaster recovery, and security measures to improve resilience and data protection.
- Collaborated with internal teams and documented infrastructure processes, configurations, and operational procedures.