Mohamed ElBeltagy

+201221411827 || +353830495629
mohamedbeltagyy@gmail.com
https://linkedin.com/in/beltagyy/
https://github.com/beltagyy/

Professional Summary

A professional Cloud Architect with 5+ years of experience across AWS, Azure, GCP and VMware platforms, with a strong track record in designing, securing, and optimizing multi-cloud infrastructures. Proven success in delivering cloud transformations, CI/CD automation, and cost-saving strategies. Former AWS Cloud Engineer (Ireland) with an M.Sc. in Networks Engineering and published researcher with 6+ papers. Currently leading cloud architecture at Vodafone Egypt with a focus on enterprise-grade deployments and compliance (GDPR, ISO).

EDUCATION

The German University in Cairo
M.Sc. in Networks Engineering, 2021-2022
Grade: A+, *Published 6 conference research papers and published a journal paper with over 7000+ reads*
B.Sc. in Networks Engineering, 2015-2020
Grade: B+ | B.Sc. Project: A+
Patriarchal College Heliopolis (ex Freres) School
General Secondary Certificate (Thanaweya Amma), 2002-2015

EXPERIENCE

Cloud Consultant, Deloitte Innovation Hub   *[August 2024 – Present] [Cairo, Egypt]*
- Architected scalable, secure Azure, AWS, and GCP cloud solutions for critical UK and European clients, driving digital transformation and optimizing costs.
- Led strategic cloud optimization efforts, aligning infrastructure and software products with business objectives, enhancing agility, performance, and regulatory compliance across critical sectors.
- Engineered end-to-end cloud architectures, integrating advanced automation, security protocols, and compliance controls to meet the unique needs of high-profile clients.
- Empowered client teams through training on cloud management and best practices via demos and technical sessions.
- Defined and enforced cloud security policies, including identity and access management (IAM), encryption, and secure-by-design architecture practices, collaborating with security and compliance stakeholders.

Software Engineer 2, Archer Integrated Risk Management   *[September 2023 – August 2024] [Cairo, Egypt]*
- Worked on automating and building Archer infrastructure and pipelines. *(Using Terraform, PowerShell, Python, Chef, GitLab CI/CD and EKS)*
- Automated Archer infrastructure cost reduction, reducing AWS costs by $1.3 million annually.
- Led the launch of SaaS environments in Canada and the UAE, and built the IN SaaS region for a seamless release.
- Implemented Chef configuration management globally and deployed Job Engine Telemetry, ensuring a secure and efficient system
- Participated in writing and maintaining infrastructure and configuration as code and worked on enhancing previous architecture
- Managed Archer On-Prem and SaaS infrastructure including SQL databases, S3 storage, EC2, CloudFront and GitLab Pipelines
- Collaborated with the Sales team and Professional services team for new environments' creation, migrations, and change requests

Cloud Engineer, Amazon Web Services   *[October 2022 – September 2023] [Dublin, Ireland]*
- Worked on day to day customers' issues related to CDN, SES, SNS, Storage & Media products on AWS
- Assisted in configuring customers' environments and applying troubleshooting techniques to provide solutions to AWS customers'
- Engaged directly with AWS services teams to help reproduce and resolve customers' complicated issues and worked on new feature requests/implementation
- Participated in internal projects with service team to enhance CloudFront and S3 AWS services using Java and Python
- Participated in critical customers' migrations from on-premises to Cloud services
- Contributed in developing internal and external knowledge articles and documentation regarding CloudFront and SES services
- Mentored new hires and worked closely on developing their technical and soft skills
- Participated as Quality Champion, leading my team to deliver top quality work and delivered quality workshops and trainings

Technical Support Engineer 2, Dell Technologies   *[April 2021 – September 2022] [Cairo, Egypt]*
- Handled complicated incidents related to converged infrastructure products. (Cisco UCS, Nexus switches (9K & 3K), MDS switches, Cisco Fabric Interconnect, Dell EMC storage and data protection products, VMware virtualization troubleshooting)
- Led my internal team lab creation, setup, and configurationand migration to AWS
- Worked on logs and core files analysis as needed to form a proper action plan in order to guarantee a resolution for complex customers issues
- Participated in content creation for the knowledge base articles database and workflow enhancement through accurate case documentation and involved in bugs reporting and investigation through manual testing and Jira
- Mentored 4 newcomers through facilitating the technical and the process procedures

- Recognized for achieving top customer satisfaction

Networks Engineer, Orange Business Services *[October 2020 – March 2021] [Cairo, Egypt]*
- Provided a professional first technical point of contact for the customer. (TCP/IP connections) and participated in various dispatches management and guaranteed high customer satisfaction
- Monitored systems, customer network security and products through a proactive system and dealt with alerts and events as appropriate
- Documented all troubleshooting and case management actions via OBS electronic case management system

Junior Teaching Assistant, The German University in Cairo *[February 2019 – June 2019] [Cairo, Egypt]*
- Led different projects and experiments using various technologies as VMware, Linux, Java, and Python. (Web-Server, Chatting app, Stream sharing)
- Evaluated and supervised 30+ students while achieving excellent feedback results
- Participated in machine learning and image processing projects using Python and Matlab

PROJECTS

Multi-Cloud Compliance Automation Platform
- Designed and deployed a compliance automation platform across AWS, Azure, and GCP using Python, Terraform, and Sentinel; enforced CIS and GDPR controls, integrated with GitLab CI for pre-deployment validation, and reduced delivery risk and time by 45%.

Routii App Cloud Infrastructure
- Architected and deployed a production-ready cloud infrastructure for the Routii app using AWS, Docker, and Terraform; built CI/CD pipelines with Bitbucket and streamlined QA using integrated TestRail and Jira for automated tracking and testing.

Nano Risk Management System
- Contributed to the development of a comprehensive risk management system using AWS, Flask, SQLite, and JavaScript. Implemented user authentication, risk analytics dashboard, and email notification features. Additionally, established a streamlined deployment pipeline for Kubernetes integration

Automated ML Prediction API
- Developed a Flask-based API that dynamically executes a machine learning script and serves updated predictions as JSON responses. Integrated with Nginx for secure and optimized request handling. Technologies used: Azure, Python, Flask, Nginx, Machine Learning, JSON.

S3 File Age Monitor and events notification on slack
- Developed a solution allows you to track file ages and (creation, deletion, restoration) in S3 Buckets and sends notification to slack-webhook when files are older than a specific period of time or any of the previous actions were triggered

Technologies and Qualifications
- Python, Java, SQL, HTML, JavaScript, PowerShell
- Git, CI/CD, Jenkins, Azure DevOps, GitHub Actions, GitLab CI/CD, Bitbucket, APIs, AWS, Azure, GCP, Docker, EKS, Linux, VMware, Terraform, Chef, Pulumi, Datadog, Kubernetes, CloudFormation, Lambda, SES, SNS, S3, CloudFront and ECS
- Certified: AWS (SysOps - SAA), AZ- 104, ISM v4, CIS v3, VCP, VCA

Languages

- Fluent in Arabic and English
- Deutsch B1
- French basics