

# Ahmed Ayman Mohamed

[ahmed.ayman11100@gmail.com](mailto:ahmed.ayman11100@gmail.com) | +49 163 0177045 | Munich, DE | [Personal Website](#) | [LinkedIn](#)

## PROFILE

---

Cloud Engineer with 7+ years of experience in AWS, cloud networking, and Infrastructure as Code (Terraform). AWS Solutions Architect certified with an M.Sc. in Computer Networks and Telematics. Experienced in building secure, scalable, and automated cloud environments, including AWS Landing Zones, monitoring, and cost optimization. Strong background in both cloud and network engineering with a focus on reliability, automation, and performance.

## SKILLS

---

AWS Cloud Services | REST APIs | Python | Network Architectures | TCP/IP | Network Automation | Product Management | Atlassian Suite | CloudOps | Terraform | Ansible | Version Control | Agile Development

## WORK EXPERIENCE

---

### Senior IT Systems Engineer

*Dec 2024 - Present*

#### Brainlab | Munich, DE

- Managed and secured AWS environments with focus on high availability, security, and cost optimization.
- Built and maintained cloud infrastructure using Terraform (Infrastructure as Code).
- Implemented AWS Landing Zone (multi-account architecture) with IAM, networking, security, and logging.
- Monitored cloud environments for compliance, performance, and cost control.
- Supported Microsoft Azure infrastructure operations.
- Designed scalable, fault-tolerant cloud architectures and automated deployments.
- Automated the creation of stand-alone accounts in a multi account AWS environment via Terraform

### IT Consultant

*Nov 2018 – Sept 2023*

#### Luxoft GmbH | Munich, DE

##### Product Owner Role – Continental CAEdge Platform:

- Spearheaded an international team of 12 cloud and software developers in the successful development and deployment of an AWS web application for development & managing ADAS/AD functions.
- Presented periodic demos of Product Increment milestones reached to 200+ stakeholders including customer's upper management.
- Automated infrastructure deployment of VPC, subnets, CloudFront distributions, ACM certificates, and S3 using Terraform - AWS vendor modules.
- Improved security score of 5 AWS accounts under my supervision to 96% via WAF security best practices.
- Participated actively in architecture design to deploy global and scalable cloud platform serving multiple business and functional departments.
- Participated in inter-department requirements collection to find most efficient ways to present solutions that work for all stakeholders.
- Orchestrated the utilization of diverse AWS Cloud services to meet business requirements.
- Designed versioned APIs following best practice. Deployed using AWS API Gateway. Tested using Postman.
- Put in place a lifecycle policy for app generated data at rest.
- Continuously documented best practices & lessons learned resulting in an increase of 20% software rollout efficiency.

##### Product Owner Role – BMW Network Design:

- Deep understanding of Automotive busses, protocols, and architecture (CAN\FlexRay\SOME-IP) with focus on Automotive Ethernet.
- Point of reference for In-Vehicle Communication & Architecture.
- Understanding and managed customers' needs, support, and escalations and creating tickets for international team of developers.
- Experienced in Atlassian software suite.
- Acted as last line of testing before Software delivery to customers.
- Strategic and capacity planning of team to avoid delivery gaps or delays.
- Utilized Atlassian Suite to smooth overall project progression.

### **In-Vehicle Tester – BMW SBWE:**

- Maintained 6 BMW test vehicle fleet and their measurement/logging setup.
- Handled VIGEM trace handling from test drives.
- ECU flashing to latest software release.
- Test Drive preparations.
- Holder of BMW B1 internal driving license (prototype vehicle tester).

### **Research Engineer**

*Feb 2017 – June 2017*

#### **Universidad Politécnica de Madrid | Madrid, ES**

- Researching novel approaches to achieve fault tolerance (avoidance & recovery) in Software Defined Networks (SDN).
- Performed validation and testing of engineering models to support adequacy and reformulated models run over Python.
- Setup building - SW and HW, in conjunction with Mininet, OpenDayLight and Docker for virtualization and simulation to create an automated SDN network analysis of failure in real time (50ms).

### **IP Network Engineer**

*March 2016 – Sept 2016*

#### **Acuntia SA | Madrid, ES**

- Completed branch offices migration, configuration and installation of Cisco Catalyst 2960x switches.
- Participated in configuration, installation & troubleshooting Juniper EX3300 switches - Onsite and remotely.
- Provided remote technical assistance & validation of service for technicians.
- Network management & monitoring of remote devices over Cisco Prime platform.
- Network design documentation and change control using MS Visio & Draw.io.
- Troubleshooting of complex LAN/WAN infrastructure, including routing protocols EIGRP, OSPF & BGP, STP.
- Implemented and maintained backup schedules.

### **IT Support Engineer**

*Feb 2013 – April 2014*

#### **BeMadrid | Madrid, ES**

- Provided Tier 1 IT support to non-technical internal users through desk side support services
- Managed company's website, monitoring performance and updating website's content over WordPress
- Enhanced website by introducing Google Analytics to provide visitors information
- Increased page views by 12%
- Upgraded website to mobile-friendly version.

### **Junior Teaching Assistant**

*Feb 2012 – June 2012*

#### **German University in Cairo | Cairo, EG**

- Assisted in teaching of lab course " Fundamentals of Computer Networks" while completing B.Sc. Thesis to 3rd year Computer Networks alumni
- Partnered with Professors to plan and implement lessons following faculty's curriculum, goals and objectives
- Verified and graded end of semester project submissions

## **EDUCATION**

---

### **Post-grad Studies, Computer Networking and Telecommunications**

*June 2018*

*Universidad Politécnica De Madrid | Madrid, ES*

### **Master of Science (M.Sc.), Telematics and Computer Networks**

*June 2014*

*Universidad Carlos III De Madrid | Madrid, ES*

### **Bachelor of Science (B.Sc.), Information Engineering and Technology, Networks Major**

*June 2012*

*German University in Cairo | Cairo, EG*

## CERTIFICATIONS

---

- AWS Solution Architect-Associate (SAA) certification
- Learning Ansible
- Terraform: Managing Network Infrastructure
- Running Kubernetes on AWS (EKS)
- Kubernetes with Amazon EKS, Fargate, And DevOps
- LiDAR Perception for ADAS and Autonomous Driving
- Configuration management DOORS BMW
- Introduction to Large Scale Scrum
- BMW Internal prototype vehicle driving license

## LANGUAGES

---

English (Native/Bilingual) | Arabic (Native/Bilingual) | Spanish (Native/Bilingual) | German (Intermediate - B1)