Ahmed Ayman Mohamed

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PROFILE

Results-driven IT Network and Cloud Engineer with 5+ years of expertise in delivering innovative cloud solutions to global customers. Holding a M.Sc. in Computer Networks and Telematics with proven experience in Cloud networking, automation, and software development. Proven ability to lead development teams with a performance-oriented approach. Resourceful and customer-focused with proven skills in product management and strategic navigation, as well as technical expertise and skills needed for reliable and scalable technical and cloud solutions from design, development till delivery.

SKILLS

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

WORK EXPERIENCE

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).
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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
- Ultimate AWS Certified Solutions Architect Associate SAA-C03
- AUT-001 CAN in Automotive
- 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)