

MOHAMMED ROQA

curriculum vitae

Sandton, South Africa | +27 686562113 | mr@mroqa.site | linkedin.com/in/mroqa

SUMMARY

Senior Technology Engineer and certified cloud-native professional with 10+ years of experience designing, building, and scaling complex systems across enterprise and startup environments. Skilled at aligning business strategy with engineering execution to deliver secure, highly available platforms and data-driven solutions. Proven ability to drive measurable outcomes through collaboration and continuous improvement.

EDUCATION

Master of Information Systems (M. Sc.)

Lund University School of Economics and Management

Informatics department • Sweden • 2021

Bachelor of Information Technology (B. Sc.)

Cairo University

Faculty of Computer Science • Egypt • 2011



Kubernetes and Cloud Native Associate

Cloud Native Computing Foundation (CNCF)

Credential ID LF-v08b81do4p · Issued Jan 2023



DevOps Foundation Certified Associate

DEVOPS INSTITUTE

Credential ID 22229277 · Issued Nov 2019

EXPERIENCE

Founder & CEO

Lync Digital • January 2022 - Present • Sandton

- Developed and executed the company's vision, mission, and long-term strategy, successfully navigating market challenges and adapting to industry trends.
- Developed and implemented comprehensive business plans, outlining strategies for growth, marketing, and financial management.
- Led product ideation, design, and iterative development, ensuring alignment with customer needs and market demands.
- Designed, developed, and tested product suites to deliver high-quality, user-friendly experiences.
- Implemented processes and systems to improve efficiency, productivity, and scalability.

Senior Engineer

Elm for Information Security • January 2018 - August 2020 • Saudi Arabia • Riyadh

- Implemented, maintained, secured, and managed corporate and project network infrastructure and data centers, ensuring availability and policy compliance.
- Analyzed, monitored, and optimized IP network workflows using performance platforms to improve efficiency and incident response.
- Managed and improved telemetry servers and databases, leading the development of KPI dashboards that improved decision-making.
- Tuned network performance, testing, and capacity planning, achieving 99.9% uptime and significantly reducing latency.
- Developed and automated monitoring and reporting processes, increasing team productivity by 25% and network visibility by 35%.
- Used REST APIs and scripting to automate administrative tasks and support process improvements, reducing operational costs by 50%.

System Analyst

Elm for Information Security • October 2014 - December 2017 • Saudi Arabia • Riyadh

- Maintained and supported IT systems throughout the project lifecycle to meet business needs.
- Reviewed technical deployment specifications and documentation while processing, cleansing, and validating large-scale data.
- Built statistical analysis methods, including ANOVA, regression, pivot analysis, and volcano plots using R.
- Automated data gathering and storage processes to increase efficiency and reduce project costs.
- Provided post-deployment support, documented and troubleshooted issues, and recommended resolution measures.
- Analyzed project needs and system functionality, then designed modifications to meet customer requirements.

System Analyst

Ebtikarat Communications and Inventions • December 2012 - May 2013 • Saudi Arabia • Riyadh

- Analyzed customer requirements and system functionality, then designed modifications to meet project specifications.
- Provided post-deployment support, documented and resolved issues, and recommended corrective actions.
- Assessed project system effectiveness and efficiency, developing plans to address performance gaps.
- Conducted functional and non-functional testing to validate system performance against requirements.
- Created user and training documentation and delivered formal training.

SKILLS

- Communicate complex information clearly to technical and non-technical audiences.
- Collaborate across levels to support project delivery and consultation.
- Apply critical thinking to solve problems and improve performance.
- Network infrastructure expertise in security, wireless, capacity planning, and architecture.
- Design, implement, and manage public cloud and cloud-native solutions.
- Data architecture experience across SQL/NoSQL databases, ETL/ELT, and stream/batch processing.
- Lead DevOps CI/CD engineering with GitHub, Jenkins, Ansible, Docker, and Kubernetes.
- ServiceNow experience across ITSM, ITOM, ITAM, and CSM modules.
- Python/R experience for APIs, web, clustering, big data analysis, and graphs.
- Use TensorFlow and PyTorch for neural networks, optimization, and LLM architecture.
- Knowledge of data compliance and regulations, including GDPR, CCPA, and HIPAA.

RESEARCH & PROJECTS

The World Data Visualization Prize 2023 Data-Design Challenge

World Government Summit • January 2023

<https://mroga.pythonanywhere.com>

Created an interactive data visualization exploring global progress over the past decade and the key factors shaping future societies, governments, and citizens.

- **Sentiment Analysis for Movie Reviews – AI Project**

Lund University School of Economics and Management • January 2021

Built an AI-based sentiment analysis project to evaluate movie reviews and extract qualitative insights beyond numerical ratings.

- **Technical Proposal for Ethical Hacking Course Lab**

KTH Royal Institute of Technology • May 2023

Prepared a technical proposal for an ethical hacking course lab, including documentation for lab setup and implementation.

- **Research Proposal – Decentralized Smart Agriculture System**

Zurich University of Applied Sciences • July 2023

Developed a research proposal for a decentralized smart agriculture system.

- **Publication**

Lund University School of Economics and Management • March 2021 - June 2021

Published research on blockchain adoption in SMEs, focusing on the key drivers and determinants of technology diffusion.

- **Network Infrastructure Automation Platform (ELMNET)**

ELM • August 2018 - June 2020

Implemented an automation platform for IT service provisioning workflows from request intake through operations.

- **HQ Infrastructure and Services Implementation**

ELM • September 2016 - April 2018

Built and maintained IP infrastructure and services for a new HQ building supporting 500+ users.

- **Agriculture Information Center**

ELM • October 2014 - June 2017

Supported and developed a data platform for the agriculture sector.