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📄 github.com/stars/FadyGrAb/lists/portfolio

📍 Alexandria, Egypt

DEV dev.to/fadygrab

I'm a telecommunications professional with more than 14 years of experience in the operation and maintenance field for several telecom technologies. Over the passed years, I've gained knowledge in apps development, the cloud industry, and data analytics. I'm several active certifications from AWS in the solutions architect/data analytics domains and from Microsoft in Data Engineering and BI. I've a profound knowledge of Python, Powershell, Linux, and many other technologies that I use on daily basis to automate decision making and reporting. I'm seeking a role where I can apply all my knowledge to help build and maintain a data driven and automated work culture.

Professional Experience

– Project Software Support and Data Analytics SME: [Jan-2021 – current]

Nokia Egypt: Telecom Egypt Account – First Line Maintenance Project

Creating special purpose software tools (utility tools/scripts to accommodate an unplanned customer request or a new project need) usually in the data collection/validation and reporting domain. And building automated pipelines to gather, process and organize the daily operations and maintenance data.

Tasks and achievements:

- Using python and Powershell to automate 16 business processes (KPIs calculations, reports review, data validations, data summarization) and saving on average 80% of the time compared to the manual processes.
- Achieving customer recognition in analytics and automation.
- Administrating 3 Linux servers in the local DC for the project's dev/test/prod workloads.
- Using PowerAutomate to provision 20+ flows handling 2000+ events daily.
- Created a local AI system that identifies emails for specific recipients as either an "escalation" or "resolution" and calculate a customer defined KPI for "Trouble Ticket to escalation" duration. This system helped the project to avoid penalties as this KPI was never violated.
- Using PowerApps and PowerAutomate to Create a project portal as a main hub for collecting daily data regarding 6 main operations and maintenance activities (Trouble Tickets, Spare Parts, Diesel Generators, Preventive Maint. , Sites database and Microwave links topology).
- Gave 5+ learning sessions about Python, SQL and Cloud for the project's team and company wide audience.

Technologies and tools: Python (Pandas, Plotly, PySpark), Javascript, Powershell, Jupyter Notebooks, SQL, Power BI, Power Automate and PowerApps.

– Field Maintenance (LTE) Area Manager: [Jul-2018 – current]

Nokia Egypt: Telecom Egypt Account – First Line Maintenance Project

Responsible for the operations and maintenance activities for Telecom Egypt's LTE network infrastructure teleco. hardware.

Tasks and achievements

- Serving 900+ telecom LTE sites.
- Managing a team of 20+ telecom engineers and techs.
- Perfect monthly KPIs for 5 straight years.
- Embrace automation whenever possible regarding reporting.

– Fiber Optics Backbone (DWDM) Field Maintenance Manager: [May 2012 – Jul 2018]

Alcatel-Lucent Egypt (currently Nokia Egypt): Etisalat Misr Account – Fiber Optics Backbone Project

In charge of the field maintenance operations for Etisalat Misr's FOBB (Fiber Optics Backbone) DWDM ring(s) both for the teleco. equipment and the OSP (Outside Plant) fiber optics cable in a 300+Km long and 25+ telecom nodes optical network.

– Optical Fiber Team Leader: [Jan 2010 – May 2012]

Alcatel-Lucent Egypt (currently Nokia Egypt): Etisalat Misr Account – Fiber Optics Backbone Project

In charge of designing, implementing & testing of Optical Fiber links (cabling + splicing)

– Project Control Engineer: [Jan 2009 – Jan 2010]

Alcatel-Lucent Egypt (currently Nokia Egypt): Etisalat Misr Account – Fiber Optics Backbone Project

In charge of documents flow and reporting for the whole project.

– Microwave Field Engineer: [Jan 2009 – Jan 2010]

Queen for Trading and engineering

In charge of MW links commissioning.

Skills:

Cloud providers: AWS and Azure.

Cloud Infrastructure as Code: CloudFormation, AWS CDK (python/typescript) and Terraform (knowledgeable)

Programming and scripting languages: Python, Powershell, bash, Javascript and Scala (knowledgeable)

Mics: Docker, git, Github Actions, Databases (postgresql), SQL.

Projects

FruitifyMe

[FadyGrAb/fruit-origins \(github.com\)](https://github.com/FadyGrAb/fruit-origins)

This project demonstrates the use of Github Actions as an effective CI/CD pipeline. The project uses a deep learning image classifier to output the image resemblance to fruits. The app is hosted on AWS.

Used technologies stack/implementations:

- Two programming languages were used, Python and Javascript.
- A dedicated Python CLI tool to handle model lifecycle (model-utils).
- Tensorflow Python API for training and testing a 12 layers convolutional neural network.
- React.Js for a sing page frontend app comprised of 6 React components.
- API gateway and AWS container Lambda for model serving.
- S3 for static website hosting.
- Docker for lambda image creation and ECR for its storage
- Two Github Actions workflows to handle model MLOps (test/deploy) and site deployment.

Git-hooks:

[FadyGrAb/git-hooks: A CLI tool to implement git custom hooks \(github.com\)](https://github.com/FadyGrAb/git-hooks)

An open source CLI tool used to automate the git hooks management. One of the implemented hooks is the “mask”. With the mask hook, the user can conceal any predefined secrets before “git commit” preventing committing secrets to Github (or any git server).

Used technologies stack/implementations:

- The tool is implemented entirely in Python
- Using Git hooks mechanism
- Fully automated which eliminates the need to manually replace the .git/hooks/<hook> file.
- CLI friendly with informative help system.
- 6 supported hooks operations (init, enable, disable, status, list and exec)
- The ability for reversing the hook effect.

Education

School: [2003 – 2008] Faculty of Engineering, Alexandria University - BSc in Electronics and telecommunications

Courses:

Alcatel-Lucent	Optical fiber training program	
Alcatel-Lucent	SDH and WDM equipment (1660, 1678, 1830 PSS-32) training program (Optical equipment used in Etisalat Misr FOBB project)	
Nokia	Field Force Skill Program for Field Service Managers (Project Management, Project Rollout, Time & Cost management, soft skills)	
CognitiveClass.ai	Python 101 for Data Science	certificate
CognitiveClass.ai	Data Visualization with Python	certificate
CognitiveClass.ai	Data Analysis with Python	certificate
Udacity	Advanced Data Analysis Nanodegree	certificate
Coursera	Machine Learning Specialization	certificate
Coursera	Deep Learning Specialization	certificate
Coursera	TensorFlow 2 for Deep Learning Specialization	certificate

Certifications:

AWS Certified Cloud Practitioner	expires 2026-07-26	Badge link
AWS Certified Solutions Architect Associate	expires 2026-07-26	Badge link
AWS Certified Data Analytics Specialty	expires 2025-05-25	Badge link
Microsoft Azure Certified Azure Fundamentals	never expires	Badge link
Microsoft Azure Certified Azure Data Fundamentals	never expires	Badge link
Microsoft Azure Certified Data Engineer Associate	expires 2024-10-21	certificate
Microsoft Certified: Power BI Data Analyst Associate	expires 2024-11-18	certificate

Languages

Arabic	English	French
Native Proficiency	Full Professional Proficiency	Limited Working Proficiency

Personal

I like tech reading and learning new things. When I have the time, I find pleasure in writing tech articles too. I appreciate a good piece of music and I'm a beginner guitar player. I love playing sports, I run and lift weights.