MOHAMED ASHOUR

Senior Software Engineer

m.aly.ashour@gmail.com • (+352) 691136420 • blog.m-ashour.space • Luxembourg - Luxembourg

Experienced Software Engineer with over 7 years of expertise in software development, real-time data processing, machine learning, and cloud technologies. Proven track record in building scalable systems, reducing costs, and leading cross-functional projects. Proficient in Python, Golang, and other programming languages, with a strong understanding of large scale systems, machine learning concepts, and cloud services.

EXPERIENCE

Software Engineer, Spire Global   **Jan 2022 – Present**

- Developed real-time data processing and delivery systems for GNSS-R/RO satellite data with strict SLAs for customers like NASA, NOAA, and EUMETSAT.
- Collaborated with scientists and led the engineering efforts to develop and deploy an ML-based project for sea ice detection and classification.
- Built tools that helped reduce AWS costs by *$250K annually*.

Technologies: Python, AWS, Docker, Postgres, Terraform, DynamoDB, Go, Jenkins

Software Engineer, Yaoota   **Oct 2020 – Dec 2021**

- Maintained data pipelines and developed core systems for internet product scraping, feature extraction, data analysis, and ML solutions.
- Worked on projects like Kipp (the main scraper for Yaoota) and Case (an internal NLP library).
- Switched hats between Software Engineer and Machine Learning Engineer to create ML solutions that enhanced data utilization, providing end-users with comprehensive product information from all verified stores in their region along with product history.

- Worked on key projects:

- Kipp: Main scraper for Yaoota, collecting product data across the internet.
- Case: Internal NLP library for data processing.

Technologies: Python, Git, NLP, Redis, Docker

Software Specialized Officer , Egypt Air Forces   **Oct 2018 – Oct 2020**

- Developing and maintaining software systems for many departments across the Air Forces Using Technologies like C# and Oracle databases

Technologies: C#, Oracle Database

Software Engineer, Elements Financial Technologies   **Aug 2017 – Mar 2018**

- Developed and maintained software systems for various departments using C# and Oracle databases.
  Technologies: C#, Oracle Database

Freelance Python Developer   **Jan 2017 – Mar 2020**

- Created data scraping scripts and machine learning models.
  Technologies: Python, Selenium, sklearn

Intern Software Engineer, Codescalers - Egypt   **Jul 2016 – Sept 2016**

- Developed internal dashboards for monitoring cloud servers.
  Technologies: Python, Flask

EDUCATION

B.Sc. Computer & Systems Engineering, Mansoura University, Egypt   **2012 – 2017**

SKILLS

- **Languages:** Python, Go, JavaScript, SQL
- **Currently Learning:** Rust
- **Concepts:** Machine Learning, Neural Networks, OOP, Algorithms & Data Structures, APIs, Test-Driven Development, Microservices

- **Tools & Technologies:** Flask, MongoDB, GIT, Docker, Tensorflow, Keras, PyTorch, Numpy, Matplotlib, Scrapy, Redis, NLTK, Scikit-learn, AWS, Terraform, Postgres, DynamoDB

ADDITIONAL INFORMATION

- **Blog:** Sharing insights on software engineering and machine learning at blog.m-ashour.space
- **Interests:** Continuous learning, contributing to open-source projects, community mentorship