

MOHAMED ASHOUR

Senior Software Engineer

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PROFESSIONAL SUMMARY

Senior Software Engineer with **7+ years of experience** in **real-time data processing**, **machine learning**, and **cloud technologies** and leading lean Software Engineering teams. Proven expertise in **building scalable systems**, optimizing costs, and leading cross-functional teams to deliver impactful solutions. Proficient in **Python**, **Golang**, and **AWS**, with a strong foundation in **data structures**, **algorithms**, and **DevOps** practices. Seeking to leverage my skills to drive innovation and efficiency in software development.

PROFESSIONAL EXPERIENCE

Software Engineer	Spire Global	Jan 2022 – Present
<ul style="list-style-type: none">Designed and implemented real-time data processing systems for GNSS-R/RO satellite data, meeting strict latency requirements for clients like NASA, NOAA, and EUMETSAT for multi-million USD contracts.Led an ML-based sea ice detection project, collaborating with scientists from concept to production deployment.Reduced AWS costs by \$250K annually through strategic cost optimization initiatives.Built and maintained CI/CD pipelines (Jenkins) and Infrastructure as Code (Terraform) for scalable and reliable deployments.Technologies: Python, Go, AWS, Docker, Postgres, Terraform, DynamoDB, Jenkins		
Software Engineer	Yaoota	Oct 2020 – Dec 2021
<ul style="list-style-type: none">Maintained and enhanced data pipelines for web scraping, feature extraction, and data analysis.Developed ML solutions to improve data utilization, enabling users to access comprehensive product information and history.Key projects:Kipp: Main scraper for collecting product data across the internet.Case: Internal NLP library for data processing.Technologies: Python, NLP, Redis, Docker		
Software Specialized Officer	Egypt Air Forces	Oct 2018 – Oct 2020
<ul style="list-style-type: none">Developed and maintained software systems for various departments using C# and Oracle databases.Technologies: C#, Oracle Database		
Software Engineer	Elements Financial Technologies	Aug 2017 – Mar 2018
<ul style="list-style-type: none">Developed a Payment Gateway as a Service to provide online payment solutions for businesses of all sizes.Technologies: Node.js, MongoDB, Docker, AWS		
Freelance Python Developer	Self-Employed	Jan 2017 – Mar 2020
<ul style="list-style-type: none">Created data scraping scripts and machine learning models for various clients.Technologies: Python, Selenium, Scikit-learn		
Intern Software Engineer	Codescalers - Egypt	Jul 2016 – Sep 2016
<ul style="list-style-type: none">Built internal dashboards for monitoring cloud servers.Technologies: Python, Flask		

EDUCATION

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

- **Programming Languages:** Python, Go, JavaScript, SQL
 - **Core Competencies:** Cloud Technologies, Containers, Machine learning, Data Intensive applications, Neural Networks, OOP, Algorithms & Data Structures, APIs, Test-Driven Development, Microservices
 - **Tools & Technologies:** AWS, Terraform, Postgres, Jenkins, Github Actions, DynamoDB , MongoDB, Git, Docker, Numpy, Matplotlib, Scrapy, Redis, NLTK, Scikit-learn,
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ADDITIONAL INFORMATION

- **Blog:** Sharing insights on software engineering and machine learning at blog.m-ashour.space
- **YouTube:** Sharing educational content at [YouTube Channel](#)
- **Interests:** Continuous learning, contributing to open-source projects, community mentorship