Ahmed Mohamed Salem Amer

Address: Abu Dhabi, UAE
Mobile: +971 5859 071 54   **E-mail:** ph.ahmedsalem@gmail.com
LinkedIn: https://www.linkedin.com/in/iahmedsalem
Github: https://github.com/Salem-1

Summary:

Passionate technology enthusiast and student at 42 Abu Dhabi with a solid foundation in programming and computer science. I have nine years of experience working in multinational pharmaceutical companies and am excited to bring a fresh perspective to software development. My focus is on using my diverse background to drive impactful change.

Education:

- Pursuing studies at **42 Abu Dhabi**, with a focus on project-based learning in software development using a hands-on approach and peer-to-peer learning. (May 2022- Current)

- B.Sc. Pharmacy, Zagazig University, class 2012.

Practical learning projects:

- Inception: Built a network of Docker containers designed to run a variety of services to serve a website, including a web server, a database server, and WordPress. This project provided me with a hands-on foundation in DevOps using Docker, Docker compose, Nginx, MariaDB, and WordPress/PHP.

- Minirt: Developed a Ray tracing program that uses linear algebra to simulate how light behaves in a 3D environment. This project gave me a solid foundation in graphics and computational geometry concepts using C language.

- C++ Bootcamp: Completed a comprehensive series of modules designed to teach C++ programming language. These modules covered essential topics such as object-oriented programming, templates, inheritance, and polymorphism, providing a solid foundation for building robust and efficient software applications.

- Minishell: Developed a lightweight Unix-like shell using C language, focusing on interacting with operating systems through command-line input. It involved parsing and executing commands, as well as implementing pipes, input, and output redirection. Overall, this project helped me develop a deep understanding of operating system concepts.

- Push_swap: Created a sorting algorithm that uses only two stacks with strict allowed moves to efficiently sort an array of integers using C language.

- Philosophers: Developed a multithreaded program that simulates the dining philosophers problem. This project taught me efficient use of multiple threads and mutexes, avoiding data races or deadlocks to solve the dining dilemma using C language.

- Mini_talk: Developed a project focusing on computer signals and processes, showcasing my ability to send text messages through binary code, decrypt messages, and output the original text. By working on this project, I gained a deep understanding in signal handling and inter-process communication using C language.

- NetPractice: Completed a comprehensive collection of networking exercises that imparted the fundamentals of network protocols, communication, and routing, including key topics such as net-masking and TCP/IP.

- Born to be root: Challenging project designed to teach the fundamentals of system administration and security. As part of this project, I built and configured a Debian virtual machine with a focus on security measures such as UFW, SSH, and password policies. This experience provided me with valuable knowledge in securing systems and networks.

- CS50 Finance: As part of a web development project, I created an e-trade platform that connects to NASDAQ API, allowing users to execute real-time trades, manage their accounts, and view stock information. I developed both the front-end and back-end, designing the database schema, writing SQL queries, (Python Flask framework).

- BMI Calculator: Developed a cross-platform mobile application that calculates the Body Mass Index (BMI), This project enabled me to acquire fundamental skills in application development and provided an opportunity to build an attractive user interface.

Experience:

- Disease Area Partner at Novartis, Multiple Sclerosis, responsible for implementing marketing messages and strategic projects to meet business growth objectives within agreed budgets and timescales. (UAE/April 2022 – Sept 2022).

- Product Specialist at **Abbvie**, Immunology, responsible for developing a thorough action plan focused on key HCPs, proactively identifying business opportunities, and allocating and adjusting resources to maximize outcomes. (UAE-Qatar/2017 - 2022)

- Medical Representative at **Sanofi**, Diabetes, responsible for ensuring consistent sales growth and achievement of sales goals and targets in assigned territory by identifying opportunities and gaining new business while maintaining existing business. (Qatar/-Feb 2015 – 2017)

- Medical Representative at **Novartis** Pharmaceuticals, Diabetes. (Egypt/2014 – 2015)

- Medical Representative at **Abbott Laboratories**, Cardiovascular Metabolic Portfolio. (Egypt/2013 – 2014)

- Community Pharmacist at **Al Moderya** Pharmacy. (Egypt/2012 – 2013)

Rewards:

- Part of the first-place winning team in the Heal-AThon Hackathon, where we developed an Early Chronic Kidney Disease Prediction project using machine learning algorithms. Our team built an application that accurately predicts the risk of CKD in patients, providing valuable insights and early detection. Together, we used Flask to create a demo app that showcased our solution. (March 2023)

5th place winner Dubai Police CTF (Capture the flag) cyber security competition (March 2023).

Training courses:

- Neural Networks and Deep Learning, Deeplearning.ai, 2021

- Structuring Machine Learning projects, Deeplearning.ai, 2021

- Data Analysis track, One Million Arab Coder, 2020

- Artificial Intelligence Foundations: Machine Learning Artificial Intelligence Foundations: Machine Learning, LinkedIn Learning, 2019

- Marketing certificate, Chartered Institute of Marketing, Aug 2017
- RSM workshop (Running Successful Meeting), Novartis, Oct 2014.

Skills:

- General IELTS score: overall 7.5, (reading: 8.0, writing: 7.0, speaking: 7.0, listening: 8.0).

- Programming Languages: C, C++, Python, Dart

- Web/App Development: HTML, CSS, JavaScript, Flask, Django, Flutter

- Databases: MySQL, MariaDB

- DevOps: Docker, Nginx

- Tools: Git, GitHub, VSCode.