

+ (20) 121 169 0901
+ (20) 121 108 8781
Omarabouromia@gmail.com

Omar Anan Abou-Romia

Software Engineer

Portfolio: [Who Is Abouromia?](#)
github.com/omar3anan
linkedin.com/in/nolimitomaranan/

TECHNICAL EXPERIENCE

Software Engineer | Bibliotheca Alexandrina

FEB 2025 — Present

FullStack Engineer - PSC Portal

- Developed a volunteer management portal that streamlines operations, now used by 800+ volunteers daily, boosting attendance tracking efficiency by 70
- Engineered a secure backend using Spring Boot PostgreSQL, ensuring data consistency and integrity
- Designed an intuitive frontend with React Tailwind CSS, enhancing user experience and accessibility.

Software Engineer Program | Forage - JPMorgan Chase & Co

AUG 2024 — SEPT 2024

Backend Engineer - Rewards Converter Project

- Developed a core component for the credit-card rewards system, which processes and converts accumulated points into redeemable rewards efficiently.
- Collaborated with cross-functional teams to ensure seamless integration with the existing system while improving performance and response times.
- Utilized Java and Spring Boot to build scalable microservices, applying best practices to ensure code quality, maintainability, and scalability.
- Led the testing and debugging phases, ensuring smooth implementation of the new feature while significantly reducing the error rate.
- **Value Proposition:** I brought a solutions-driven mindset to improve reward processing, enhancing user experience and operational efficiency.
- [Dive Deeper : Certificate](#)
- [Dive Deeper : Certificate](#)

[GitHub Link \(Rewards Converter\)](#)

[GitHub Link \(Forage Midas\)](#)

Software Engineer | Tactful.AI

AUG 2023 — OCT 2023

Backend Engineer - Efficient Onboarding and Troubleshooting ChatBot

- Spearheaded the design and implementation of a chatbot system to streamline customer onboarding and troubleshoot common issues across multiple platforms.
- Built a search functionality that allowed the chatbot to query data from five independent platforms, ensuring users received accurate information promptly.
- Focused on reducing customer onboarding time and improving troubleshooting efficiency, contributing directly to customer satisfaction and retention.
- **Value Proposition:** My work on the chatbot not only improved response accuracy but also reduced onboarding time, delivering measurable improvements in client retention and user experience.
- [Dive Deeper : Certificate](#)

[GitHub Link](#)

Embedded Software Trainee with DevOps Guide | Siemens Digital Industries Software

AUG 2022 — JAN 2023

- Contributed to embedded software development while integrating DevOps practices, focusing on automating workflows and ensuring continuous delivery.
- Developed and optimized software for real-time systems, ensuring smooth interaction between hardware and software components.
- Worked extensively with Linux-based systems and implemented solutions to streamline development cycles.
- **Value Proposition:** I integrated DevOps automation to enhance workflow efficiency and reliability in real-time system development.
- [Dive Deeper : Certificate](#)

Linux System Administration Trainee | Information Technology Institute (ITI)

JULY 2022 — AUG 2022

- Gained hands-on experience managing and administering Linux systems, with a focus on automation, security, and resource optimization.
- Developed shell scripts to automate routine tasks, reducing manual intervention and enhancing system reliability.
- **Value Proposition:** My automation solutions helped improve system stability and reduce repetitive tasks, freeing up resources for more critical projects.
- [Dive Deeper : Certificate](#)

Information Technology Security Trainee | Alexandria Shipyard (AYS)

SEP 2022 — SEP 2022

- Conducted penetration testing and vulnerability assessments to identify and mitigate potential security risks.
- **Value Proposition:** My work in security assessments helped strengthen defenses and improve the overall security
- [Dive Deeper : Certificate](#)

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SKILLS

Tools and Languages Java - Spring Boot - Hibernate - JavaScript - NodeJS - ReactJS - Relational Database - Data Integration - Restful APIs - CI/CD - Data Structure - Algorithms - Linux System Administration - Docker - AWS - C++

Communication Arabic (Native) , English

PROJECTS

Nexusphere Social Media Server

- Developed the backend for a social media platform where users can connect, interact, and share content. Implemented user authentication, content management, and engagement metrics to foster community growth.
- Focused on optimizing database queries for high traffic, ensuring scalability and a seamless user experience.
- Value Proposition:** Created a platform that encourages community interaction, allowing for efficient and scalable connections between users, enhancing social engagement and content sharing.
- [GitHub Link](#).

High Spirit Server & Concert Server

- Developed a server to integrate music streaming with concert ticket booking, providing a seamless platform for artists and fans.
- Built APIs that handle both streaming data and ticket sales, ensuring smooth event management and fan interaction.
- Value Proposition:** My work enhanced fan engagement by combining music streaming and live event experiences, giving users a single, intuitive platform to connect with their favorite artists.
- [GitHub Link](#).

notYet Technical Platform

- Collaborated as a frontend developer in building a platform aimed at improving problem-solving and strategic thinking through a structured learning environment.
- Ensured the UI was intuitive and responsive, helping users easily access professional guidance and resources.
- Value Proposition:** Designed a user-friendly interface that facilitated learning and professional development, improving engagement and user satisfaction.
- [GitHub Link](#).

VÊTEMENTS Website

- Led the development of an e-commerce platform using the MERN stack and microservices architecture, integrating an API Gateway for efficient data handling.
- Deployed the entire system using Docker, ensuring smooth scaling and deployment.
- Value Proposition:** The e-commerce platform I developed enhanced business reach by offering a seamless shopping experience, which directly contributed to increased sales and customer retention.
- [Development GitHub Link](#).

EDUCATION

Bachelor of Computer Science

Faculty of Science - Alexandria University
Software Industry and Multimedia (SIM)

GPA: 3.6 **Grade:** Distinct
[Certificate](#) [Transcript](#)

CERTIFICATES

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|---|-----------|
| JPMorgan Chase : Software Engineering Advanced – Dive Deeper: Certificate | Nov, 2024 |
| JPMorgan Chase : Software Engineering Lite Job Simulation – Dive Deeper: Certificate | Aug, 2024 |
| Amigoscode : Spring Security – Dive Deeper: Certificate | Jan, 2024 |
| Google Cloud Training: Building Java Microservices with Spring Boot and Spring Cloud – Dive Deeper: Certificate | Dec, 2023 |
| Amigoscode : Spring Boot – Dive Deeper: Certificate | Dec, 2023 |
| Amigoscode : Relational Database and SQL Essentials – Dive Deeper: Certificate | Dec, 2023 |
| IBM : Developing Back-End Apps with Node.js and Express – Dive Deeper: Certificate | Oct, 2023 |
| AWS Technical Essentials Cloud Essentials – Dive Deeper: Certificate | Dec, 2022 |
| Exam Readiness: AWS Certified DevOps Engineer – Professional DevOps – Dive Deeper: Certificate | Dec, 2022 |
| AWS Cloud Practitioner Essentials Cloud Essentials – Dive Deeper: Certificate | Nov, 2022 |