

# Amgad Galaom

TALL-Stack | Desktop Developer | Practical Labs Instructor

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## Professional summary

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Motivated and detail-oriented TALL-Stack and Desktop Developer with a Bachelor's degree in Computer Science and proven experience as a Practical Labs Instructor. Skilled in full-stack web development using Tailwind, Alpine JS, Laravel, Livewire, and MySQL, with strong expertise in object-oriented programming and algorithmic problem-solving. Experienced in delivering hands-on labs in Python (Data Mining), C++ (Programming Fundamentals), and C# (Operating Systems), reinforcing core concepts such as supervised/unsupervised learning, debugging, concurrency, and kernel programming. Adept at designing technical workflows, mentoring students, and implementing scalable solutions across web and desktop environments. Committed to continuous learning, professional growth, and contributing technical skills to dynamic development teams and real-world projects.

## Technical Skills

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- **Programming Languages:** C++, C#, PHP, SQL
- **Frameworks & Libraries:** Laravel, Livewire, Alpine.js, Tailwind CSS, Bootstrap, DaisyUI, Filament
- **Databases:** MySQL, ADO.NET
- **Tools & Platforms:** Git, GitHub, Visual Studio Code

## Experience

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### Al-Razi University – Practical Labs Instructor (Part time)

- **Lab Instructor – Data Mining**

Dec 2025 - Jan 2026 · 2 months - Sana'a, Yemen

Delivered all Data Mining laboratory sessions using Python, covering:

- Data handling and preprocessing (Pandas)
- Supervised learning (Decision Tree, KNN, Naive Bayes)
- Unsupervised learning (K-Means)

- **Lab Instructor – Programming Level 1**

Sep 2025 – Nov 2025 · 3 months – Sana'a, Yemen

Delivered practical labs reinforcing foundational programming concepts in C++, covering:

- Hands-on coding tasks with variables and control structures
- Step-by-step lab instructions and starter code
- Debugging and accuracy checks for lab materials
- Monitoring student progress and adapting lab complexity

- **Lab Instructor – Operating Systems**

Jul 2025 – Sep 2025 · 3 months – Sana'a, Yemen

Conducted 11 lab sessions on core OS concepts using Windows CMD, C# and Linux, covering:

- Lab assignments, exercises, and project evaluations
- Technical lab setup and Linux-based systems management
- Mentorship and feedback on debugging techniques

- Concurrency, memory management, and kernel programming

#### **Key projects supervised:**

- Linux Kernel Modules (kernel-level code)
- CPU Scheduling Simulator (Round-Robin algorithm)
- File System Design (simplified disk-based storage)

## **Projects**

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### **YemenIN – Social job platform with feed, jobs, and chat (Team Project)**

- **Tech:** Livewire, Laravel, Alpine.js, Bootstrap and MySQL.
- Built the Laravel/MySQL backend and data model for posts, jobs, and chats; optimized key queries and added indexes to reduce page load times noticeably.
- Implemented real-time UI updates with Livewire + Alpine.js to enable instant post/comment reactions and live chat. Led integration of job postings into the main feed to increase discoverability and reduce navigation friction.

### **CareerAI – AI career advisor prototype (7-day hackathon)**

- **Tech:** Laravel, Livewire, Alpine.js, MySQL
- Implemented Backend systems + dynamic UI components. **Competed in Slam Hack 2025**, delivering a functional prototype in 7 days.

## **Certifications**

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### **ProgrammingAdvices Certifications & Courses**

- **C# & Database Connectivity (Dec 2025):**  
Implemented database connectivity in C# using ADO.NET and applied 3-Tier Architecture for scalable solutions.
- **SQL (Projects & Practice) - Level 1 (Oct 2025):**  
Completed a SQL course focused on real-world database scenarios, including query optimization, multi-table joins, and practical data manipulation.
- **OOP As It Should Be in C# (Sep 2025):**  
Explored object-oriented programming principles through a modern C# lens, focusing on clean architecture, encapsulation, inheritance, and polymorphism. Gained practical experience in building maintainable and scalable applications using best practices in OOP design.
- **SQL & Databases - Level 1 (Aug 2025):**  
Mastered fundamental database concepts and SQL syntax, gained proficiency in writing complex queries for data retrieval and manipulation, and developed skills in database design and management as a core foundation for data-driven application development.
- **C# - Level 1 (Jul 2025):**  
Learned C# programming rules and professional basics, gained desktop app development skills using Windows Forms, and explored advanced programming concepts as a foundation for comprehensive technical solutions (for Web, Mobile, etc.).
- **Algorithms & Problem-Solving (Levels 2–5):**

Four certifications completed between 2024–2025 covering advanced data structures, system scalability, and optimization techniques.

- **Data Structures (Jun 2025):**

Mastered data structure concepts, applications, and programming patterns.

- **Advanced OOP Applications (May 2025):**

Applied OOP principles to real-world scenarios for robust software development.

- **Basic & Advanced OOP Concepts (Apr 2024):**

Advanced programming skills focusing on the basic & advanced concepts of object-oriented programming using C++.

## Other Certifications

- **Laravel Development** – Wist Academy & Google DSC (2024-Aug):

Built secure REST APIs, MVC architectures, and authentication systems.

- **Web Development Framework Application (Laravel)** - *Al-Razi University & IEEE (June 2023)*

Gained foundational understanding of Laravel's core concepts and practical workflow.

- **UI/UX Design** - Al-Razi University & IEEE (June 2023)

Acquired foundational and advanced skills in UIUX design principles, including wireframing, prototyping, and user centered design methodologies.

## Education

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**Bachelor of Computer Science**, AL Razi, Sanaa, (2025, Jun)

## Language

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**English Language Certification** – Canadian Center for Training & Capacity Development, Sana'a

- **Advanced Diploma** – 300 hours – Grade: 91% (Excellent) – Mar 2022

- **Intermediate Diploma** – 300 hours – Grade: 87% (Very Good) – Jan 2021

- **Fundamentals Starter Course** – 90 hours – Grade: 93% (Excellent) – Jan 2020