AMR KAMOUN

Alexandria, Egypt

📞 +201099011493 ✉ amrkamoun2012@gmail.com in amr-kamoun-025258244 ⭘ Amr-Kamoun

Summary

A driven and highly skilled computer engineering graduate of the Arab Academy for Science, Technology & Maritime Transport (AASTMT), with a strong GPA of 3.73/4.0 and practical experience in software development. Proven ability to deliver scalable and efficient solutions through hands-on experience in real-world projects and internships. Demonstrated leadership and problem-solving in the building of cross-platform systems and mobile apps. Interested in applying deep technical skills and creativity to tackle complex engineering challenges.

Education

Sidi Gaber Language School   Oct 2006 – Aug 2020
High School Diploma   *Alexandria, Egypt*

Arab Academy for Science, Technology and Maritime Transport   Oct 2020 – Jul 2025
B.Eng. in Computer Engineering (Dual Degree with University of Northampton)   *Alexandria, Egypt & Northampton, UK*
- **GPA:** 3.73 / 4.0 (Excellent With Grade Of Honor)
- **Graduation Project:** Smart Virtual Fitness Trainer (**Grade: A+**)

Experience

DXC Technology   Apr 2025 – Jul 2025
Software Engineer Intern   *Smart Village, Egypt*
- Contributed to full-stack IoT monitoring system across frontend, backend, DevOps, and testing.
- Built scalable APIs, Angular UI components, and automated CI/CD pipelines with Jenkins and Docker.
- Engaged in agile sprints: stand-ups, code reviews, retrospectives.

ISchool   Jul 2025 – Present
Instructor (Grades 4, 5, 6)   *Alexandria , Egypt*
- Taught children coding and software fundamentals using tools such as AppLap, Mblock, and Godot.
- Designed engaging learning experiences tailored to different grade levels.
- Helped students build interactive games and applications.

Algoriza   Jul 2025 – Present
Software Tester Intern   *Remote , Egypt*
- Conducted manual and automated testing of software applications.
- Collaborated with developers and PMs to define test cases and report bugs.
- Contributed to quality assurance across the software development lifecycle.

University of Central Lancashire (UCLan)   Aug 2023 – Sep 2023
Intelligent Machines Trainee, Engineering Summer School   *Preston, UK*
- Completed hands-on training in robotics, sensor integration, and embedded hardware systems.
- Participated in international workshops and technical sessions.

Technical Skills

Languages: Python, Java, C++, C, C#, JavaScript, HTML, CSS, SQL, Dart

Frameworks: Spring Boot, React, Angular, Tailwind CSS, Node.js, Flutter

Tools: Git, GitHub, Docker, Jenkins, Kubernetes, Firebase, Supabase, VS Code, Android Studio, Postman

Core: Full-Stack Development, DevOps, Testing

Projects

IoT Monitoring System | *Angular, Spring Boot, MySQL, Redis, Docker, Jenkins, Kubernetes, Playwright*   **July 2025**
- Built a full-stack IoT monitoring dashboard enabling real-time data visualization from sensors.
- Implemented backend RESTful APIs using Spring Boot (Java 21) and integrated MySQL for persistent storage and Redis for performance caching.
- Developed a responsive frontend in Angular with real-time status updates and interactive dashboards.
- Containerized the application using Docker and orchestrated services (frontend, backend, MySQL, Redis) via Docker Compose.
- Automated CI/CD pipelines with Jenkins and deployed containerized services to Kubernetes clusters for scalable and reliable infrastructure.
- Wrote Playwright-based automation tests to verify UI functionality, user flows, and edge cases across devices.

EventHub – Modern Event Management Platform | *React, Tailwind CSS, Supabase*   **May 2025**
- Developed a full-stack event management web application with user authentication, event discovery, registration, and an admin dashboard.
- Built dynamic UI with React and Tailwind CSS, managed user roles and state using React Context, and integrated Supabase for authentication, database, and storage.
- Implemented secure login flows, role-based access control, and real-time data fetching with optimized RLS policies in Supabase.

Smart Virtual Fitness Trainer | *Machine Learning, Unity, Flutter*   **February 2025**
- Developed a smart virtual fitness coaching system integrating VR and deep learning for real-time exercise tracking using YOLOv8.
- Implemented pose estimation and real-time feedback mechanisms to enhance user posture and movement during workouts.
- Designed a wearable fitness band with heart rate and motion sensors, syncing data to a mobile app via Firebase for personalized training insights.

Plant Disease Detector | *Python, Machine Learning, TensorFlow*   **January 2025**
- Implemented a web application that analyzes uploaded plant images using a trained deep learning model, accurately detecting and classifying plant diseases.

Christmas Shop Website | *AWS, API, HTML, CSS, JavaScript*   **December 2024**
- Developed a Christmas-themed online shop leveraging AWS services for hosting and scalability, while integrating various APIs to manage payments and inventory.

NLP Evaluation News | *JavaScript*   **December 2024**
- Developed a news evaluation system using NLP to analyze and categorize news articles.

Weather Journal App | *JavaScript*   **November 2024**
- Created a web application that allows users to log weather conditions and view historical data.

Remote Desktop App | *C++*   **March 2024**
- Created a remote desktop application using C++ to enable users to control another computer remotely.

Job Networking App Front-end | *HTML, CSS, JavaScript*   **December 2023**
- Developed the front-end of a job networking application using HTML, CSS, and JavaScript to create an intuitive user interface.

Job Networking App Back-end | *Python, MySQL*   **December 2023**
- Developed the back-end logic using Python and MySQL to handle user data and interactions.

KRFS-Library Management System | *Java, MySQL*   **January 2023**
- Developed a library management system using Java and MySQL to streamline book lending and returning processes.

Smart Police Station Management System (SPSMS) | *Java, MySQL*   **January 2021**
- Designed and implemented a system to manage police station operations using Java and MySQL.

EXTRACURRICULAR ACTIVITIES

ACPC   **August 2021 – August 2022**
Volunteer   *AAST,Alexandria*
- Supported engaging, fun, and smooth-running events by helping with organization and planning.

Rotaract Club Of Nozha United   **August 2021 – March 2023**
Member   *Alexandria, Egypt*
- Supported engaging, fun, and smooth-running events by helping with organization and planning.
- Used strong interpersonal communication skills to convey information to others.

Certifications

- Robot-Building Exhibition
- Best Group Project Award in UCLAN
- Foundations of User Experience (UX) Design
- Start the UX Design Process: Empathize, Define, and Ideate
- Intelligent Machines at UCLAN
- ACPC Sixty First Contestant
- ACPC Participation 2021
- Udacity Front End Web Developer & Digital Freelancing
- ICMISI2025
- DXC Internship