

Abdelrahman Ahmed Hassan Atia

Egypt, Giza, 6 October

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Professional Summary

Results-driven Computer Science graduate with expertise in DevOps, software engineering, and machine learning. Skilled in containerization, CI/CD pipelines, cloud orchestration, and full-stack development. Passionate about automation, infrastructure optimization, and building scalable production systems.

Education

Bachelor of Information Technology and Computer Science 2019 – 2023
Nile University, Giza, Sheikh Zayed
Concentration: Media Informatics | GPA: 3.66/4.0

Technical Expertise

DevOps: Docker, Kubernetes, Jenkins, CI/CD Pipelines, Git, Linux
Programming: Python, C++, C, JavaScript, PHP, Bash
Web Development: Node.js, React.js, HTML5, CSS3
Machine Learning: Deep Learning, TensorFlow Lite, Computer Vision, OpenCV
Database: MySQL
Tools: Android Studio, ImGUI

Professional Experience

Teaching Assistant, Computer Science Department Oct 2025 – Present
German University in Cairo (GUC), Cairo

- Supporting programming and software engineering courses for undergraduate students
- Conducting lab sessions and assisting with debugging and code reviews

Junior Teaching Assistant, Computer Science Department Oct 2020 – Feb 2021
Nile University, Giza

- Supported programming courses and mentored students on software development projects
- Assisted with debugging, code reviews, and technical queries during lab sessions

Key Projects

DevOps Web Deployment Pipeline November 2025
Practice Project

- Containerized a simple web application using Docker and deployed it on Kubernetes cluster
- Implemented CI/CD pipeline with Jenkins for automated testing and deployment
- Configured multi-stage builds and orchestrated services with Docker Compose

ASSIST ME: Mobile Application for Visually Impaired Individuals June 2023
Graduation Project – Computer Vision & Deep Learning

- Developed life-assist mobile app with reading and navigation modules using OCR and YOLOv8 object detection
- Deployed TensorFlow Lite models optimized for mobile devices with 95% text recognition accuracy
- Integrated road sign recognition, face recognition (CNNs), and ToF sensor-based distance estimation

Regex-to-Finite-Automaton Converter June 2022
C++ Application with ImGUI

- Developed a tool to convert regular expressions to finite automata with interactive visualizations
- Implemented graph rendering and state transition animations using ImGUI framework

Restaurant Management System June 2022
Full-Stack Web App (React.js, Node.js, MySQL)

- Built order and inventory management system with analytical dashboards and role-based access

Automated University Management System January 2022
Web App (HTML, CSS, JS, PHP, MySQL)

- Created full-featured academic portal for students, faculty, and admins with role-based authentication

Professional Certifications

KodeKloud: Docker for Beginners, Kubernetes for Beginners, Jenkins for Beginners
IBM: Data Science Specialization (Nov 2022), Data Analysis Specialization (Oct 2022)
Meta: Version Control (Sept 2022), iOS Development (Sept 2022)

Languages

Arabic: Native | English: Professional Working Proficiency