

# 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

<b>Bachelor of Information Technology and Computer Science</b> Nile University, Giza, Sheikh Zayed Concentration: Media Informatics   GPA: 3.66/4.0	2019 – 2023
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## Technical Expertise

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

## Professional Experience

<b>Teaching Assistant, Computer Science Department</b> German University in Cairo (GUC), Cairo	Oct 2025 – Present
<ul style="list-style-type: none"><li>Supporting programming and software engineering courses for undergraduate students</li><li>Conducting lab sessions and assisting with debugging and code reviews</li></ul>	

  

<b>Junior Teaching Assistant, Computer Science Department</b> Nile University, Giza	Oct 2020 – Feb 2021
<ul style="list-style-type: none"><li>Supported programming courses and mentored students on software development projects</li><li>Assisted with debugging, code reviews, and technical queries during lab sessions</li></ul>	

## Key Projects

<b>DevOps Web Deployment Pipeline</b> Practice Project	November 2025
<ul style="list-style-type: none"><li>Containerized a simple web application using Docker and deployed it on Kubernetes cluster</li><li>Implemented CI/CD pipeline with Jenkins for automated testing and deployment</li><li>Configured multi-stage builds and orchestrated services with Docker Compose</li></ul>	
<b>ASSIST ME: Mobile Application for Visually Impaired Individuals</b> Graduation Project – Computer Vision & Deep Learning	June 2023
<ul style="list-style-type: none"><li>Developed life-assist mobile app with reading and navigation modules using OCR and YOLOv8 object detection</li><li>Deployed TensorFlow Lite models optimized for mobile devices with 95% text recognition accuracy</li><li>Integrated road sign recognition, face recognition (CNNs), and ToF sensor-based distance estimation</li></ul>	
<b>Regex-to-Finite-Automaton Converter</b> C++ Application with ImGUI	June 2022
<ul style="list-style-type: none"><li>Developed a tool to convert regular expressions to finite automata with interactive visualizations</li><li>Implemented graph rendering and state transition animations using ImGUI framework</li></ul>	
<b>Restaurant Management System</b> Full-Stack Web App (React.js, Node.js, MySQL)	June 2022
<ul style="list-style-type: none"><li>Built order and inventory management system with analytical dashboards and role-based access</li></ul>	
<b>Automated University Management System</b> Web App (HTML, CSS, JS, PHP, MySQL)	January 2022
<ul style="list-style-type: none"><li>Created full-featured academic portal for students, faculty, and admins with role-based authentication</li></ul>	

## 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