

# Abdelrahman Abdelrahman

## Software Engineer

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### PROFILE

Software Engineer MSc with 2+ years across backend and API development, data integration, and applied ML and computer vision. Real time systems in Python and Java, integrating cloud and databases, delivering reliable, documented services with CI CD on Linux, Docker, Kubernetes; practical XR and Unity exposure.

### PROFESSIONAL EXPERIENCE

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|---|--------------------------------------|
| <b>Software Engineer (EOS), Elpro GmbH</b> <ul style="list-style-type: none"><li>Design and implement AI-based software solutions (EOS), architecting technical systems that integrate custom software with hardware components.</li><li>Manage the full software development lifecycle from agile planning to deployment while collaborating with external R&amp;D partners.</li><li>Lead system commissioning and customer onboarding, providing on-site and remote technical support to ensure successful implementation.</li></ul>  | 02/2026 – Present<br>Berlin, Germany |
| <b>Systems Engineer, ESCRIBA</b> <ul style="list-style-type: none"><li>Developed on the ECAP low code platform, extending features with Java and JavaScript and delivering robust data models, workflows, and REST APIs.</li><li>Drove quality and delivery through structured testing and QA, performance improvements, comprehensive technical documentation, and collaboration with cross functional teams.</li></ul>  | 03/2025 – 09/2025<br>Berlin, Germany |
| <b>XR Researcher, Immersive Insiders</b> <ul style="list-style-type: none"><li>Investigated and evaluated emerging XR technologies and practical use cases, translating findings into actionable guidance.</li><li>Built prototypes with Unity, C Sharp, and XR SDKs including XR Interaction Toolkit, OpenXR, and AR Foundation on Meta Quest 3 following best practices.</li><li>Authored sponsored blog posts for Meta and Immersal and supported the XR community on Discord by triaging questions and FAQs.</li></ul>  | 07/2024 – 01/2025<br>Berlin, Germany |
| <b>Data Integration Engineer, Asyad - Etqan-Tech</b> <ul style="list-style-type: none"><li>Engineered end to end data integration on Oracle Cloud Infrastructure OCI using Oracle Data Integrator ODI with SQL and PL SQL, delivering automated ETL pipelines and ERP connected workflows for large scale databases.</li><li>Led ERP integrations and digital transformation by designing secure REST APIs, standardizing ETL and master data management MDM, and building tools with Oracle APEX; authored comprehensive SOPs and technical documentation; OCI certified.</li></ul>  | 05/2023 – 03/2024<br>Muscat, Oman    |
| <b>Systems Engineer, Stratech PS</b> <ul style="list-style-type: none"><li>Managed IT service operations and system design across Linux and Windows, implementing REST APIs and integrating ERP systems.</li></ul> Applied Docker and Kubernetes, virtualization, and Linux administration in customer projects with troubleshooting and documentation. <ul style="list-style-type: none"><li>Built integrations and automations with SnapLogic iPaaS and JavaScript as a Certified Automation Engineer, standardizing SOPs and technical documentation to streamline operations and strengthen infrastructure reliability.</li></ul> | 10/2022 – 05/2023<br>Cairo, Egypt    |
| <b>TechOps Software Engineer, Sumerge</b> <ul style="list-style-type: none"><li>Resolved incidents and service requests through ticketing systems under defined SLAs, triaging issues, debugging, and delivering fixes using Java and JavaScript across Spring Boot and Kubernetes environments including pods and instances.</li><li>Collaborated with development teams to improve reliability, created and maintained runbooks, SOPs, and technical documentation, and supported deployments, basic monitoring, and service health verification for Kubernetes workloads.</li></ul>  | 03/2023 – 04/2023<br>Cairo, Egypt    |
| <b>Research &amp; Development Engineer, German University in Cairo</b> <ul style="list-style-type: none"><li>Co led the Smart Bike cluster building depth estimation models in Python, TensorFlow, and MATLAB and integrating sensor data with machine learning for real time computer vision on embedded platforms.</li><li>Bridged hardware and software by bringing up sensors and onboard compute validating prototypes and producing clear technical documentation with reproducible pipelines.</li></ul>  | 08/2021 – 09/2021<br>Cairo, Egypt    |

## EDUCATION

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### **Master of Science - MSc, Computer Science Engineering GPA 1.47 Excellent with Honors,**

01/01/202406 – 2025

*German International University in Berlin*

- Grade A. Thesis Improved Segmentation Methods for Ultrasound Breast Imagery; applied AI and machine learning for medical image analysis using UNet, Operational Neural Networks, and PyTorch; results Dice 87.80 percent, Jaccard 79.60 percent; 2.1 times faster inference with ONNs

### **Bachelor of Science - BSc, Computer Science Engineering,** *German University in Cairo*

09/2017 – 07/2022

- Grade A. Thesis Smart Bike B2X Communication System; focus on IoT, AI, and machine learning for secure connectivity between bike, vehicles, and infrastructure; result lightweight BANET for real time data exchange; included basic gesture recognition module

## SKILLS

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### **Programming Languages**

Python, Java, JavaScript, TypeScript, C Sharp, SQL, PL SQL, MATLAB, C++, HTML, CSS, React

### **Developer Tools**

AWS, Oracle Cloud Infrastructure, Docker, Kubernetes, Linux, Git, GitHub, Oracle Data Integrator, Oracle APEX, Data Warehousing and ETL, PostgreSQL, MySQL, NoSQL, Gradle, continuous integration and continuous delivery

### **Frameworks**

Node.js, React, Angular, Next.js, REST and RESTful APIs, OAuth2, PyTorch, TensorFlow, scikit-learn, OpenCV, Pandas, NumPy, Unity, XR Interaction Toolkit, AR Foundation, OpenXR, Shader Graph, URP, Responsive Design, Web Accessibility

## Languages

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### **English**

Native

### **German**

C1 Professional