



AHMED ALMAHADY


Software Developer

 portfolio

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SUMMARY

Electrical & Electronics engineer - Software Developer. -I'm passionate about new technologies, Adept at collaborating with dynamic teams to build high-quality systems and identify opportunities to enhance the end-user experience, and always curious to learn more!

SKILLS

- **Programming Languages:** HTML, CSS, JavaScript, Typescript, Python, SQL.
- **Technologies:** React.js, Node.js Next.js, Express.js, MongoDB, Prisma, Pytorch, Fairseq, Docker, AWS.
- **Concepts:** Web development, Data Analysis, Artificial intelligence, Machine Learning, Technical support, Technical documentation, CI/CD.
- **Version Control:** Git .

EDUCATION

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| 2023 | Bachelor's degree in Electrical and Electronic engineering
Obtained a Bachelor of Science -with honors in Electrical and Electronic engineering - Software engineering of electronic systems with a first-class grade. | University of Khartoum |
| 2023 | Creative Economy e-Learning Program
Completed an extensive Program for launching creative enterprises, the program was developed through a collaboration between Microsoft and the British Council and was delivered by the Entrepreneurship Centre at the School of Management Studies, University of Khartoum. | University of Khartoum |
| 2022 | Deep Learning specialization | Coursera |
| 2021 | Bootcamp Data Analysis and Visualization | Coursera |

EXPERIENCE

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| 2024
March-current | AMI Engineer
• Currently working as part of a cross-functional team that includes engineers, developers & Technicians in e& Advanced metering infrastructure project.

• Directed the installation and commissioning of over 1000 AMI system components, prioritizing site quality and safety throughout the process to ensure seamless integration and operation. | e& UAE |
| 2023
Feb - Dec | Web Developer
• Built Websites for a diverse clientele ensuring responsive design and seamless user experience.
React / Node | Amun data |

2021-2022 June - January	Technical Support & Data Analyst Intern <div>Ministry of Agriculture</div> <ul style="list-style-type: none"> I contributed to agricultural research as a data analyst, focusing on correlation analysis to assess and monitor crop yield. My role involved visualizing data & utilizing statistical methods to examine the relationships between various agricultural factors and crop productivity. Python / Excel
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PROJECTS

Next.js, SQL prisma	Ecommerce app with a CMS <div>CMS Demo</div> <p>full system for creating and managing an e-commerce app. The system allows creating stores, and adding & customizing products along with a dashboard to monitor revenue.</p>
Python, Fairseq, Huggingface	Arabic-Swahili Neural Machine Translation <div>Graduation Project</div> <p>In my graduation project, in the field of NLP, with my co-worker we assessed the Arabic-Swahili neural machine translation situation. Constructed from scratch the largest open-source parallel corpora for translation tasks, then Created baseline encoder-decoder transformer models utilizing fairseq and fine-tuned two existing translation models on our data, followed by extensive results & performance comparison.</p>
React.js, MongoDB, Express.js	AI Image Generation Website <div>Demo</div> <p>The website leverages the OpenAI API for AI-based image generation. Users interact with the system by providing prompts, the generated images are then made accessible for users to share within the platform's community.</p>
Python, Excel	Seasonal Agriculture Data Analysis <p>Systematic analysis & Visualization of seasonal data, facilitated informed policymaking.</p>

PUBLICATIONS & AWARDS

- Co-author : International Conference for Learning Representations **ICLR 2023** , published a paper with the title 'Machine Translation Baseline for Arabic-Swahili' .
- Best Graduation project- university of Khartoum.

LANGUAGES

English , Arabic - native