


# AHMED ALMAHADY


Software Engineer ~ Developer

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## SUMMARY

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

## SKILLS

- **Languages:** HTML, CSS, JavaScript, Python, SQL, Java.
- **Technologies:** React.js, Express.js, Node.js, jQuery, Django, PyTorch, Excel, Tableau.
- **Concepts:** Operating System, Networks, Encryption, Decryption, Artificial Intelligence, Machine Learning, Neural Networks, scrum Methodology.
- **Version Control:** Git .

## EDUCATION

2023	<b>Bachelor's degree in Electrical and Electronic engineering</b> Obtained a Bachelor of Science -with honors in Electrical and Electronic engineering - Software engineering of electronic systems with first class grade.	<b>University of Khartoum</b>
2023	<b>Creative Economy e-Learning Program</b> Completed an extensive Program 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.	<b>University of Khartoum</b>
2022	<b>Bootcamp Web Development</b>	<b>The App brewery</b>
2022	<b>Deep Learning specialization</b>	<b>Coursera</b>
2022	<b>Creative short courses (Web design &amp; Data Analysis)</b>	<b>Udemy</b>

## EXPERIENCE

2021	<b>Intern Data Analyst</b> • 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. <b>Python / Excel</b>	<b>Ministry of Agriculture</b>
2022- current	<b>Freelance Web developer</b> • Built Websites & Landing pages for a diverse clientele, including an <b>advertising agency</b> .My work incorporated responsive design methodologies and user-friendly interfaces.  <b>React / Node.js</b>	<b>Freelance</b>

## PROJECTS

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Python, Fairseq,  
Huggingface

### Arabic-Swahili Neural Machine Translation

Graduation Project

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.

React.js, MongoDB,  
Express.js

### AI Image Generation Website

Demo

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.

React.js, SQL,  
Express.js

### Blog project

Basic Login, Register functionality Users can post blogs.

Python, Excel

### Seasonal Agriculture Data Analysis

Systematic analysis & Visualization of seasonal data, facilitated informed policymaking.

## PUBLICATIONS & AWARDS

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- 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

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English , Arabic - native