

Omer Ebead

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SUMMARY

Full-stack software engineer with a strong foundation in electrical and electronic engineering and a current focus on Artificial Intelligence for Science through a Master's program at Stellenbosch University. Experienced in designing and developing full-stack solutions, predictive models, and satellite data analysis systems. Recognized for collaborative problem-solving, technical expertise, and leadership potential, as demonstrated by projects ranging from recommender systems to sustainability analysis.

EDUCATION

Stellenbosch University — AIMS South Africa <i>Masters degree in AI for science</i>	Sep. 2024 – Sep. 2025 <i>Cape Town, South Africa</i>
University of Khartoum <i>Bachelors degree in Electrical and Electronic Engineering</i>	Aug. 2016 – May 2021 <i>Khartoum, Sudan</i>

EXPERIENCE

Freelancer <i>Software Engineer</i> <ul style="list-style-type: none">Designed and developed user interface, server and database for Customer's Ideas	Apr. 2023 – Sep. 2024 <i>Riyadh, Saudi Arabia</i>
AmunData <i>Software Engineer</i> <ul style="list-style-type: none">Designed and developed user interface, server, database, data preparation, data processing, and data predictions.Built systems to extract vegetation indexes from Satellite images and built models for predictions.Collaborated with data analysis team for data visualization tasks using PowerBi.	Apr. 2022 – Apr. 2023 <i>Khartoum, Sudan</i>
OROOMA <i>Software Engineer</i> <ul style="list-style-type: none">Designed and developed user interface and server for multiple websites.	Jan. 2021 – Apr. 2022 <i>Khartoum, Sudan</i>

PROJECTS

Recommender System <i>Python</i> <ul style="list-style-type: none">Built and developed movies recommender system using ALS algorithm	Nov 2024
Clinical <i>React, Nextjs</i> <ul style="list-style-type: none">Developed and designed the user interface of an online clinic's appointment website in UAE.	May 2023
Rewash <i>React, Nextjs</i> <ul style="list-style-type: none">Developed and designed the user interface of a washing company's dashboard.	May 2023
Temporal Analysis of Regional Sustainability Using CNNs and Satellite Data <i>Python, Pytorch</i> <ul style="list-style-type: none">Developed a system to calculate region's biocapacity.	May 2020
SunSeek EV <i>Arduino, C++</i> <ul style="list-style-type: none">Built a self-charging solar car that tracks sunlight to charge its battery and then moves to shade to protect its components.	April 2018
GloveControl <i>Arduino, C++</i> <ul style="list-style-type: none">Built a sensor-equipped glove that lets users control a computer with hand movements.	April 2017

AWARDS

Google Deepmind Scholarship to study Masters at AIMS South Africa

Sep. 2024

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: React, Nextjs, Node.js, Flask, Django, Material-UI

Developer Tools: Git, Docker, AZURE, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib, Pytorch, TensorFlow, Keras, JAX

SOFT SKILLS

Languages: English : IELTS 7.0

Programs: Hasso Plattner d-school Afrika - Design Thinking, McKinsey Forward Program - Leadership

REFERENCES

Academic and professional references are available upon request.