

Omer Ebead

+249118912916 | omer@aims.ac.za | [LinkedIn](#) | [Portfolio](#) | [Github](#)

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

Masters degree in AI for science

Sep. 2024 – Sep. 2025

Cape Town, South Africa

University of Khartoum

Bachelors degree in Electrical and Electronic Engineering

Aug. 2016 – May 2021

Khartoum, Sudan

EXPERIENCE

Freelancer | *Flask, Django, Nextjs*

Software Engineer

Apr. 2023 – Sep. 2024

Riyadh, Saudi Arabia

- Designed and developed user interface, server and database for Customer's Ideas

AmunData | *Reactjs, Flask, Power BI*

Software Engineer

Apr. 2022 – Apr. 2023

Khartoum, Sudan

- 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.

OROOMA | *Reactjs, Kotlin*

Software Engineer

Jan. 2021 – Apr. 2022

Khartoum, Sudan

- Designed and developed user interface and server for multiple websites.

PROJECTS

Recommender System | *Python*

Nov 2024

- Built and developed movies recommender system using ALS algorithm

Clinical | *Reactjs, Nextjs*

May 2023

- Developed and designed the user interface of an online clinic's appointment website in UAE.

Rewash | *Reactjs, Nextjs*

May 2023

- Developed and designed the user interface of a washing company's dashboard.

Portfolio | *Nextjs*

Jan 2023

- Developed and designed the user interface of a washing company's dashboard.

Temporal Analysis of Regional Sustainability Using CNNs and Satellite Data | *Python, Pytorch*

May 2020

- Developed a system to calculate region's biocapacity.

SunSeek EV | *Arduino, C++*

April 2018

- Built a self-charging solar car that tracks sunlight to charge its battery and then moves to shade to protect its components.

GloveControl | *Arduino, C++*

April 2017

- Built a sensor-equipped glove that lets users control a computer with hand movements.

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.