

# Omer Ebead

+249118912916 | [omer@aims.ac.za](mailto: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

---

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

## EXPERIENCE

---

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

## PROJECTS

---

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

## AWARDS

---

**Google deepmind scholarship**

## 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.