

## **EDDAH CHEPCHIRCHIR**

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## **PROFESSIONAL SUMMARY**

Results-driven Data Engineer, Cloud Computing Specialist, and Software Developer with expertise in machine learning, artificial intelligence, data analytics, and IT infrastructure. Proficient in building secure, scalable, and data-driven solutions that drive efficiency and innovation. Experienced in public health analytics, cloud automation, network administration, and database management. Passionate about leveraging AI, automation, and cloud technologies to solve complex challenges with a strong ability to innovate, communicate, and lead beyond tech.

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## **TECHNICAL SKILLS & TOOLS**

### **Software Development & Cloud Computing**

- Building scalable applications and managing secure cloud environments
- Tools: Python, Azure, AWS, GitHub, GitLab

### **Data Science & Machine Learning**

- Developing AI-driven solutions and predictive analytics models
- Tools: Python, R, TensorFlow, Scikit-learn, Pandas, Jupyter Notebook, NLP

### **Database Management & Data Analytics**

- Optimizing relational and NoSQL databases for business intelligence
- Tools: MySQL, PostgreSQL, SQL Server, Microsoft Power BI

### **Technical Support & IT Operations**

- Providing IT infrastructure support and optimizing network systems
  - Tools: Microsoft Office, Active Directory, NEMIS System, SharePoint
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## **WORK EXPERIENCE**

### **Data Consultant**

*Gonzalum Holdings Ltd, Tsavo Road, Kenya / Jan 2025 – Present*

- Providing expert consultation on data engineering, cloud infrastructure, and AI-driven analytics to enhance business intelligence strategies.
- Developing custom machine learning models to optimize decision-making and predictive analytics.
- Ensuring data security, scalability, and regulatory compliance, reducing compliance-related risks.

## **Data Scientist**

*Engage Project, Public Health AI Initiative, Nakuru, Kenya / Aug 2024 – Dec 2024*

- Selected as one of 15 women from the Rift Valley region of Kenya for the ENGAGE Project to advance AI and data science skills in public health.
- Developed predictive models for maternal health risk analysis, improving healthcare decision-making.
- Collaborated with cross-functional teams to enhance data storage, retrieval, and health analysis solutions, increasing system efficiency by 20%.

## **Mentee (Data Science Specialization)**

*KamiLimu, Nairobi, Kenya / Mar 2024 – Nov 2024*

- One of 38 mentees selected from over 200 applicants for mentorship in scholarships, innovation, and professional development.
- Developed competitive solutions using human-centered design and research, leading to finalist selection in an innovation competition.
- Improved public speaking and pitching skills through training, leading to a 40% increase in effectiveness.

## **Technical Support Specialist**

*Spartec Consortium Africa (SCA) / July 2021 – Sep 2023*

- Designed and implemented secure network topologies and firewall rules, enhancing system performance.
- Managed cloud storage optimization with NetApp ONTAP, reducing storage costs by 20%.
- Administered Active Directory, streamlining user account management and security, reducing security incidents by 25%.

## **ICT Attaché**

*Ministry of Education, Nairobi, Kenya / Jan 2019 – Apr 2019*

- Provided technical support for the National Education Management Information System (NEMIS), reducing support tickets by 95%.
  - Conducted network installations, cable configurations, and ICT equipment inspections, improving connectivity.
  - Delivered user training on software and hardware support, increasing IT literacy by 15%.
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## EDUCATION

### **Bachelor of Science in Computer Science**

*University of Nairobi / Sep 2020 – Sep 2024*

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## PROJECTS

- Safe Mom (2023-2024): Developed an AI-based predictive model to assess preeclampsia risk during pregnancy.
  - AI for Special Needs (2024): Built an AI-powered tool to assist visually impaired individuals in interpreting maps.
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## CERTIFICATIONS

- AI, ML & Data Science for Public Health – Engage Project (Aug 2024)
  - Huawei Seeds for the Future – Huawei (Jun 2023)
  - Cloud Engineering Certification (Jun 2023)
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## AWARDS & ACHIEVEMENTS

- AI Hackathon for Special Needs (2024): Developed an AI-based accessibility solution for visually impaired users.
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## REFERENCES

### **Professor Julius Oyugi**

ENGAGE Project Principal Investigator

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