ZEPHYLIN DUSENGIMANA

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EDUCATION

Oklahoma Christian University   **Expected December 2025**
Master of Science in Computer Science | GPA: 4.0/4.0

Kyungdong University, South Korea   **2020 - 2024**
Bachelor of Computer Engineering | GPA: 4.0/4.0 | Top Student

SKILLS & TOOLS

- **Programming Languages:** Java, Python, C++, C#, PHP, Javascript
- **Frameworks and Tools:** React, Node.js, Next.js, ASP.NET core, REST APIs
- **Databases:** MySQL, MongoDB, PostgreSQL, Redis
- **Cloud & DevOps:** AWS(EC2, S3, RDS), Docker, Playwright, Git, CI/CD, Agile
- **AI & ML:** TensorFlow, Pytorch, NLP, OpenCV, InsightFace, YOLO, LangChain, HuggingFace, FAISS.

PROFESSIONAL WORK EXPERIENCE

Software Developer   **June 2025 − Present**
AfiaSyncEHR Startup | Remote
- Developing an AI powered virtual health assistant/chatbot for patients and integrating AI to automate documentation, surface insights, and improve care delivery.
- Built and integrated a .NET 8 backend with APIs and local emulators (Azure COSMOS DB, Azurite).
- Automated UI testing using Playwright, reducing manual testing workload by 95%

Undergraduate Research Assistant   **March 2023 − May 2024**
AI and Computer Vision Lab | South Korea
- Integrated YOLO-based detection algorithms into CCTV systems, improving surveillance accuracy by 70%
- Conducted research on AI and ML concepts from IEEE, Elsevier, and Springer publications
- Co-authored research paper on attendance system using InsightFace deep learning framework.

Machine Learning Engineer Intern   **January 2024 − April 2024**
HighView Tech Group | Rwanda
- Built real-time anomaly detection system for fuel consumption monitoring, improving data quality by 30%.
- Preprocessed and analyzed large-scale datasets for predictive modeling and business insights.

PROJECTS

RAG Chatbot | Python, Streamlit, NLP, Hugging Face, LangChain, FAISS
- Built a Retrieval-Augmented Generation (RAG) chatbot for intelligent document querying and live Q&A.
- Deployed interactive Streamlit app via Ngrok for real-time content processing and user interaction.

EagleAI - Career Intelligence Platform | React, FastAPI, Python
- Designed and built a full-stack AI career guidance web app using React, FastAPI, and Python.
- Developed ML-based recommendation algorithms aligning student skills with career paths.
- Deployed on Vercel with CI/CD integration, managing all design, coding, and deployment.

Automated Attendance Management System | Python, InsightFace, Redis, Streamlit, WebRTC
- Developed a facial recognition-based attendance system achieving 96% recognition accuracy.
- Collected and augmented 5,000+ images for training a high-accuracy recognition model.
- Designed a user-friendly interface with Streamlit, improving usability and reducing manual work by 95%

AWARDS & HONORS

- First top Student and Valedictorian in Computer Engineering department (Kyungdong University, 2024)
- 3x winner of KDU Hackaton Programming Contest (Kyungdong University 2021 - 2023)
- 1st place - Mathematics, National Science Competition organized by Rwanda Education Board (2018).
- Winner of People Friendship University of Russia (RUDN) Open Olympiad in Mathematics (Russia, 2019)