OKIROR SAMUEL VINALD — COMPUTER ENGINEER

🌐 Portfolio 📞 +256 757684309 ✉ okiror1vinald@gmail.com ⚙ Vinald in Okiror Samuel Vinald

SUMMARY

Enthusiastic and driven Computer Engineer with proficiency in Python and JavaScript, alongside a strong background in web development and data science. Experienced in designing and deploying innovative software solutions through hands-on internships and academic projects. Adept at problem-solving, collaborating within team environments, and adapting quickly to new technologies. Committed to continuous learning and professional growth, with a keen interest in contributing to dynamic software development teams.

EMPLOYMENT HISTORY

Back-End Development & Data Science Intern, ZIdio   **August 2024 — Present**

- ✓ Analyzed project data and created summaries to support decision-making.
- ✓ Cleaned and transformed data, ensuring high-quality datasets.
- ✓ Used Excel functions to enhance performance monitoring and reporting accuracy.
- ✓ Developed backend services with JavaScript, optimizing server performance and scalability.
- ✓ Designed RESTful APIs and ensured secure integration of databases for improved functionality.
- ✓ Gained Skills: Python, JavaScript (Node.js), SQL, Excel, RESTful API Design, Data Analysis.

Intern, NetLabs!UG   **June 2023 — Sept 2023**

- ✓ Designed and implemented a smart monitoring and management irrigation system using Python and TensorFlow that increased crop yield.
- ✓ Developed a machine learning model that optimized irrigation patterns based on real-time sensor data, resulting in more efficient water usage.
- ✓ Gained hands-on experience with embedded systems, networking, Python, and machine learning.

Software Intern, EvoTech Solutions   **June 2022 — Sept 2022**

- ✓ Developed user interface components for a school management system using React, enhancing the system's usability and visual appeal.
- ✓ Implemented interactive features that improved the user experience and overall functionality of the system.
- ✓ Strengthened skills in front-end technologies, including HTML, CSS, and JavaScript.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, HTML, CSS

Web Development: React.js, Node.js, Django, APIs

Data Science: Data Analysis, Data Visualization, Machine Learning

Databases: MySQL, PostgreSQL, MongoDB

Tools: Git, GitHub, Docker, Linux

Design: Figma, Adobe Illustrator, Adobe Photoshop, Jupyter, Excel

SOFT SKILLS

Problem-Solving   Adaptability   Communication   Teamwork   Time Management   Quick Learner

EDUCATION

Bachelor of Science in Computer Engineering

Makerere University, Kampala, Uganda

Uganda Advanced Certificate of Education

St. Peter's College, Tororo

PROJECTS

Smart Irrigation System   **Python, TensorFlow, Flask**

Developed a smart system integrating machine learning to optimize water usage based on real-time sensor data, reducing water consumption by 30%.

Blog Website   **Node.js, HTML, Bootstrap**

Created a dynamic blog platform with features for adding, editing, and deleting posts. Designed a responsive and user-friendly interface.

Voice-Controlled Wheelchair   **Python, Embedded Systems, TensorFlow**

Engineered a voice-activated wheelchair system using speech recognition, enabling hands-free control for users with physical impairments significantly improving accessibility.

REFERENCES

Ms. Bernah Namulyowa from NetLabs!UG

nalinbrinah4@gmail.com +256 756659968

Mr. Okello Wayne from Makerere University

wayneredemption@outlook.com +256 754468261