OKIROR SAMUEL VINALD Computer Engineer

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

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

Data Science & Web 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 (Node.js), optimizing server performance and scalability.
- ✓ Integrated databases and managed server configurations for improved security and efficiency.

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

- ✓ Built a smart irrigation system using Python and TensorFlow, increasing crop yield.
- ✓ Developed a machine learning model to analyze real-time sensor data and optimize irrigation patterns, resulting in a 30% reduction in water usage and more efficient resource consumption.
- ✓ Gained 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.
- ✓ Implemented interactive features, enhancing user experience and functionality.
- ✓ Strengthened skills in HTML, CSS, and JavaScript.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL
Web Development: HTML, CSS, React.js, Node.js, APIs
Data Science: Data Analysis, Data Visualization, Machine Learning
Databases: MySQL, PostgreSQL, MongoDB
Tools: Git, GitHub, Linux, Jupyter, Excel, Power BI
Design: Figma, Adobe Illustrator & Photoshop,

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 Back-End Development

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

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Mr. Okello Wayne from Makerere University

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