OKIROR SAMUEL VINALD COMPUTER ENGINEER

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SUMMARY

Results-driven **Software Developer** with a **Bachelor of Science in Computer Engineering**, specializing in full-stack web and mobile development. Proficient in JavaScript (React, React Native), Python (Django), and Java (Spring Boot), with hands-on experience building scalable, user-centric applications. Combines strong theoretical foundations with practical problem-solving to deliver efficient, maintainable code. Passionate about bridging system design and seamless UX, with a keen interest in AI/ML integration and cybersecurity best practices. Eager to contribute to dynamic software development teams and learn from seasoned mentors while building real-world applications in a fast-paced environment.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, SQL, HTML
Frameworks and Libraries: Bootstrap, React.js, Django, Spring
Web Development: APIs, Responsive Design, UI/UX
Mobile App Development: Kotlin, React Native
Data Science & ML: Data Analysis, Data Visualization, Machine Learning
Databases: MySQL, PostgreSQL, MongoDB
Networking: TCP/IP, HTTPS, IP Addressing, Subnetting, Routing, LAN, WLAN, SSH
Tools: Git, GitHub, Docker, Linux, Figma, Microsoft Office Suite, Adobe (*Illustrator, Photoshop*)

EMPLOYMENT HISTORY

Software Developer, Infectious Disease Institute — **January 2025 — Present**

- ✓ Collaborated with cross-functional teams to develop and maintain a mobile application.
- ✓ Participated in Agile development processes, including sprint planning and daily stand-ups.
- ✓ Conducted code reviews and provided constructive feedback to team members.
- ✓ Assisted in troubleshooting and debugging issues in existing applications.
- ✓ Gained Skills: Android Mobile App Development, Agile SDLC, Kotlin, Docker

Web Development & Data Science Intern, Zidio — **August 2024 — Oct 2024**

- ✓ 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 APIs and ensured secure integration of databases for improved functionality.
- ✓ Gained Skills: Python, JavaScript, SQL, Excel, API Design, Data Analysis.

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

- ✓ Learned Python and foundational machine learning concepts.
- ✓ Gained a solid understanding of supervised learning algorithms (Sklearn and Tensorflow algorithms)
- ✓ Designed a smart irrigation management system using Python and TensorFlow that optimized irriga-

tion patterns from real-time sensor data for better water efficiency and crop yield.

- ✓ Integrated sensor data into an embedded system for real-time decision-making.
- ✓ Acquired practical experience in 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 functionality of the system.
- ✓ Generated content for the system, improving information accessibility for users.
- ✓ Collaborated with team members to enhance system performance and optimize code for efficiency.
- ✓ Strengthened skills in front-end technologies, including HTML, CSS, and JavaScript.

EDUCATION

Bachelor of Science in Computer Engineering

Makerere University, Kampala, Uganda

Uganda Advanced Certificate of Education

St. Peter's College, Tororo

Uganda Certificate of Education

St. Peter's College, Tororo

SOFT SKILLS

Problem-Solving   Adaptability   Communication   Teamwork   Time Management   Quick Learner

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   **Django, 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

Contact and Email available on request

Mr. Okello Wayne from Makerere University

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