

SUMMARY

Enthusiastic and driven Computer Engineer with proficiency in Python and JavaScript, and a background in software 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. Proficient in modern frameworks like React, Node.js, and Django, and committed to continuous learning and professional growth. 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 SUMMARY

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

Frameworks: Bootstrap, React.js, Node.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

- ✓ Mobile App Development
- ✓ Gained Skills: 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 irrigation 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.

- ✓ 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

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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