

JOHN BROWN OUMA

SOFTWARE DEVELOPER

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Education

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Technical University of
Mombasa | SEP 2021 –
NOV 2025

Awaiting graduation

CERTIFICATES

- AI for Software Engineering (Power Learn Project) | FEB 2025 - NOV 2025
Awaiting graduation
- Kubernetes & Cloud Native (Andela Kubernetes African Training) | 2025
Ongoing | [LINK](#)
- Data & AI Specialization (Cyber Shujaa) MAY 2025 -AUG 2025 | [LINK](#)
[\[Data & AI Articles\]](#)
Grade: Distinction
- Cybersecurity specialization (Coursera) 2025| [LINK](#)

Profile

Aspiring Software Developer graduating in November 2025 with over 2 years of hands-on experience through internships, academic projects, and freelance work in full-stack development, AI integration and machine learning, and cloud -native Solutions. Skilled at designing, developing, and optimizing software applications across multiple languages and frameworks. Adept at collaborating in agile teams, contributing innovative solutions, and eager to apply technical expertise in a professional setting.

Professional Experience

GROTH HACKING INTERN EXCELERATE – REMOTE

AUG 2025
– SEPT 2025

- Designed and optimized a growth funnel for MindNest (a mental wellness app) using the AARRR framework, mapping the complete user journey from acquisition to referral.
- Conducted a simulated A/B testing campaign comparing homepage headlines, achieving insights that improved sign-up conversion rates by 50%.
- Tracked and analyzed key growth metrics including CTR, Conversion rate, Bounce rate, Retention Rate, CPA, and Viral Coefficient to drive data-based recommendations.
- Developed a referral model, influencer outreach plan, and viral content strategy, contributing to scalable growth blueprint.
- Collaborated with a remote team to deliver structured reports and presentations, strengthening communication, analytics, and digital marketing skills.

INTERN SOFTWARE DEVELOPER SWAHILIPOT HUB FOUNDATION - MOMBASA

MAY 2024
– AUG 2024

- Developed and maintained Web applications using Django, python, next.js and react. Swahilipot Fm, Swahilipot Website and Pwani innovation Week, and Asset management System were the project at hand.
- Debugged and optimize code for performance and scalability.
- Collaborated with cross-functional teams to implement user-centric features.

Key Skills

AI & Machine Learning



Full Stack Development



Cloud Computing



Cybersecurity



Problem solving



Team leadership



- Developed and programmed a digital microscope using Arduino and C++, integrating both hardware and software components for real-time image capture. Optimized C++ code for performance and accuracy.
- Implemented sensor integration and hardware controls modules, ensuring smooth interaction between optical components and microcontroller systems.

TECHNICAL SKILLS

- Languages: Python, JavaScript, C/C++, Java, Scala, PHP, C#, SQL, HTML/CSS3.
- Frameworks & Tools: Django, React, Next.js, Node.js, Bootstrap, Git, Docker, Kubernetes.
- Databases: MYSQL, PostgreSQL, MongoDB, SQLite
- AI & Machine learning: Scikit-learn, TensorFlow, Keras, Pytorch, Pandas, NumPy, Matplotlib, Seaborn, NLTK, Hugging Face Transformers, OpenCV.
- Cloud & DevOps: AWS, Firebase, Docker, Kubernetes, Linux CLI, Jenkins.
- Hardware & IoT: Arduino, Raspberry Pi

Awards

(Aug 2024)

Microsoft Student Ambassador –
Python & AI, Microsoft learn |
[LINK](#)

PROJECTS

Clinic Appointment Reminder System | [LINK](#)

- Developed an automated clinic reminder system reducing no-shows and improving scheduling efficiency.

Predictive Employee Retention System | [LINK](#)

- Developed a machine learning model (Python/Django) to turnover with 85% accuracy.
- Integrated JWT/auth and a Next.js dashboard for HR analytics.

Solar Energy Production Prediction System | [LINK](#)

- Developed Machine learning models (Random Forest, XGBoost, Neural networks) achieving $R^2 > 0.90$ and deployed a Streamlit dashboard for real-time Solar power forecasting and visualization. Supporting SDG&: Affordable Clean Energy.

COVID-19 Global Data Tracker | [LINK](#)

- Built an interactive Streamlit dashboard to analyze and visualize global COVID-19 cases, deaths, and vaccinations trends using Our World in Data.

Sneaker E-Commerce Web App | [LINK](#)

- Developed a responsive sneaker e-commerce web app with product catalog, shopping cart, and checkout functionality.

Asset Management System | [LINK](#)

- Developed a full-featured Asset management system to efficiently track, manage, and optimize organizational resources.

References

Available upon request.