Bernard Adala Wanyande - MSc Computer Science Student

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in bernard-wanyande   ⌗ adala-wanyande

Education

Leiden University   *February 2025 – July 2027*
MSc in Computer Science: Data Science   *(Expected Graduation)*
- GPA: 9.0/10
- **Coursework:** Information Retrieval, Information Theoretic Data Mining, Recommender Systems, Reinforcement Learning, Multi-criteria Optimization and Decision Analysis, Data Visualization

Strathmore University   *July 2020 - July 2024*
BSc in Computer Science
- Grade: First Class Honours
- **Coursework:** Cloud Computing, Software Engineering, Distributed Systems, Object Oriented Programming in Java and C++, Data Structures and Algorithms

Additional Training

- Diploma in Application Programming and Interaction Design at Tallinn University
- Diploma in Artificial Intelligence and Machine Learning at Brno University of Technology

Skills

Programming Languages: TypeScript, Python, JavaScript, Dart, Bash, Kotlin, R

Libraries & Frameworks: React, Next.js, Express.js, FastAPI, Flutter, Pandas, NumPy, Scikit-learn

Databases: SQL, PostgreSQL, MongoDB, Firebase

Tools & Platforms: Git, VS Code, RStudio, Vercel, XCode, Docker, Amazon AWS, Google Cloud Platform

Soft Skills: Leadership, Problem-Solving, Team Collaboration, Communication, Time Management

Experience

Data Science Intern   *Wageningen, Netherlands*
Unilever 🔗   *Feb 2025 – Sep 2025*
- Automated shelf life prediction using statistical modeling and machine learning, reducing manual analysis time by **60%** and increasing forecast accuracy by **30%**.
- Developed an AI-powered learning assistant that summarizes SharePoint content into structured learning paths, cutting onboarding time by **40%** and boosting knowledge retrieval efficiency by **50%**.

Junior Software Engineer   *Nairobi, Kenya*
Risk Africa Innovatis 🔗, *Kenyan Government Partner*   *Aug 2024 – Jan 2025*
- Reduced development time by **75%** by integrating OpenAI's LLM for translations, avoiding a full codebase refactor.
- Led migration from **monolithic** to **microservices** with FastAPI, improving efficiency by **50%** and reducing downtime by **25%**.

Software Engineer Intern   *Tallinn, Estonia*
Kodally 🔗, *Estonian GovTech Startup*   *Jan 2024 – July 2024*
- Developed a **high-performance Flutter mobile application** for an **Estonian government-funded startup**, transforming Figma prototypes into a functional product used by **1,000+ clients**.

Awards

Dean's List Award   2020 − 2024

Recognized for academic excellence, earning the Dean's List award for all years of my bachelor's degree.

ETH Global Hackathon Winner   2023

Won an ETH Global hackathon for developing an innovative blockchain-based project.

[Project Showcase Video](#) ↗

Projects

Cardiovascular Disease Risk Prediction API - (BSc Final Project)   *[github.com/cvd-api](#)* ↗
- Developed a **Flask** API to predict **CVD risk** using machine learning.
- Optimized model performance and ensured real-time risk assessment.
- Tools: Python, Flask, Scikit-learn, Pandas

Afya One Mobile App   *[afya-one.vercel.app/](#)* ↗
- Built a cross-platform **Flutter** app for healthcare management.
- Integrated **FHIR-based data storage** and real-time health tracking.
- Tools: Flutter, Firebase, FastAPI, PostgreSQL

Soko V2 − E-commerce Platform   *[github.com/soko-v2](#)* ↗
- Developed an interactive **Flutter** frontend for store discovery.
- Implemented **QR scanning, video, and geolocation-based challenges**.
- Tools: Flutter, Firebase, Google Maps API

Mosaics − ETH Global Hackathon Winner   *[ethglobal.com/showcase](#)* ↗
- Built a decentralized art marketplace using **Ethereum smart contracts**.
- Enabled artists to tokenize and monetize digital assets.
- Tools: Solidity, Next.js, IPFS, Polygon

Languages

English: Native   **Swahili:** Native   **German:** A2   **Dutch:** A1 (Currently Learning)

Volunteering

Production Team Member, Latitude59 − Tallinn, Estonia   *May 2024*
- Assisted in the production and logistics of **Latitude59**, Estonia's largest tech and startup conference.
- Helped coordinate stage setups, managed event schedules, and ensured smooth technical operations.

Assistant Teacher, Strathmore School − Nairobi, Kenya   *Feb 2021 − July 2021*
- Assisted teachers in **grading assignments**, setting up **classroom technology**, and managing lessons, ensuring a smooth and efficient learning environment.
- Supported students with coursework, providing additional guidance in various subjects.