

DAMA Soumana : Web & Mobile Developer | Frontend – Backend – AI

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PROFIL PROFESSIONNEL

Passionate and versatile Computer Science engineer specializing in Programming and Entrepreneurship, with strong expertise in web and mobile development, as well as artificial intelligence and data science. Experienced in building innovative digital solutions in frontend and backend development through academic projects, professional internships, and hackathons, including AI-powered applications in agriculture, health, and environmental sustainability. Certified in digital product development, Google data analytics, and AI, with proven leadership and teamwork skills demonstrated through active involvement in community organizations (Zindi, GeoAI Africa, 10000 Codeurs). Open to new challenges and committed to leveraging technology to drive innovation and positive impact.

EDUCATION

10/2022- 31/07/2025	Burkina Institute of Technology, Koudougou, Burkina Faso ▪ B.Sc. in computer science ▪ Specialization: Programing and Entrepreneurship ▪ CGPA Equivalent: 3.7/4.0 ▪ Third year Bachelor's thesis defense : Grade 19/20 (equivalent to an A grade 4.0/4.0) Excellent distinction : “Development of an Intelligent Mobile Application for Automated Detection of Onion Diseases Using Computer Vision – Case of Burkina Faso.” Supervised by Dr Rachid Gaetan NABOLLE of BIT. Built OnionScan , a deep learning-based application using YOLOv10-X for real-time disease detection on onion crops. ▪ Integrated smartphone & drone imagery for sustainable agriculture.
08/2024 - 02/2025	▪ Frontier Tech Leaders Program (UNDP ICPSD, Turkey – Online) Training in Artificial Intelligence, Machine Learning, and Data Science. Co-developed a deep learning model for segmentation of cervical cancer images. Selected among top participants to contribute to UNDP's AI for Good projects. 1st Place Winner – Capstone Project (2025)

10/2019- 06/2022	Lycée Privé Espoir du Faso, Ouagadougou, Burkina Faso <ul style="list-style-type: none"> ▪ Baccalaureate D ▪ Specialization: Mathematical, Natural Science and Chimical Physics
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PROFESSIONAL EXPERIENCE & PROJECTS

Mai.2025 - Aout.2025

Avril.2025 - Juin.2025

November 2024- January 2025

January 2025 – July 2025

08/2024 – 06/2025

October 2024- January 2025

01/2025-02/2025

Full Stack Developer – Silmas SAS – Ouagadougou |

- Development of a service management application with dynamic dashboards and REST APIs, including a chatbot and a system for automatically generating high-performance certificates (**React+TS+Node.js+Postgresql**) for BIMADES.

WordPress Developer – Silmas SAS – Ouagadougou

- Design of responsive web applications for the Burkinabe Football Federation (FBF).
- Technologies : **WordPress, HTML, CSS, PHP**
- Developed Admin Front end in Silmas sas web app (**React.js, tailwind css, Node.js**)

Full Stack Developer for the Bachelor's thesis project-Koudougou

- Developed **OnionScan** an Intelligent Mobile Application for the Automated Detection of Onion Diseases Using Computer Vision and the yolov10x model: Case of Burkina Faso (**Python,Flutter, Computer vision ,FastAPI, YOLOv10X**)
- **UN Volunteer position in Community Communication and Administration Support UNDP ICPSD Istanbul, Turkey for the Frontier Tech program Online Leaders / Part-time:**
Contributed to the organization of Machine Learning bootcamps.
Assisted with participant monitoring and reporting.
Moderated training sessions for 113 Ethiopian student beneficiaries.
Supervised and evaluated capstone projects as a member of the jury.

- Co-developed a deep learning model for segmentation of medical images of cervical cancer lesions for the Frontier Tech Leaders program defense (**React.js TS, Django,DL**)
- **AgriSens – Smart IoT Drip Irrigation System APESI Burkina Hackathon – Finalist Project Team AgriSens 2025**
Design of an IoT system for optimizing and monitoring market
Use of the ESP8266 microcontroller (NodeMCU), moisture /pH/NPK/ temperature sensors, and the Blynk application for remote visualization and control. Technologies: ESP8266, SIM800L, Blynk, WorkWi, Flutter, React.js, Node.js, MongoDB.

- 03/205**

 - **Academic Project – Smart IoT Waste Bin**
Co-developed a connected waste bin solution using IoT sensors for real-time fill-level monitoring.
Integrated contactless lid opening, instant Telegram alerts when full, and sound/light indicators to improve user experience and hygiene.

- April 2025-June 2025**

 - Co-developed EpiAccess – Enhancing COVID-19 Health Outcomes Through Data-Driven Interventions Capstone project for Grow with Google MMC program(**Google data analytic professional certificate project**)
 - Developed a sentiment analysis model

- May 2025-June 2025**

 - Developed AI Next Word Prediction Model:
Artificial intelligence model using **LSTM and TensorFlow** to predict the next word in a sentence. Trained on SMS dataset with tokenization and temporal sequences.

- May 2025-June 2025**

 - Climate Challenge – Call for Code IBM Hack Co-developed AI web app for the automatic analysis of environmental documents
 - An AI that automatically summarizes national environmental plans, UN reports, and international conventions, so that NGOs and startups can quickly understand them.(**IBM tool Watsonx.ai +RAG**)

- 12/2024-01/2024**

 - **Trainer – Community Management & AI for Business Workshops for Students and SME Entrepreneurs – Koudougou ;Burkina Faso**
Delivered training sessions for **10 participants (students and SME entrepreneurs)**.
Covered content creation with Canva, social media management, and AI-assisted digital marketing.
Coached participants on leveraging AI tools to boost their businesses.
Designed and facilitated practical workshops on AI adoption for entrepreneurship.

- 11/2024**

 - **Session Moderator – Zindi Africa Program,Ouagadougou Burkina Faso**
Moderated a training session on the theme: “Discovering Zindi Africa, Introduction to Python and Data Science.”
Facilitated knowledge sharing and participant engagement.
Benefited 26 participants (students and young professionals) as part of Zindi’s outreach program in Burkina Faso.

- 2024**

 - Founded **BURKINA IA TV** media the first online information platform on artificial intelligence and technological evolution in Burkina Faso

- 08/2024 – 10/2024**

 - **Yaangre Tech; Internship, Ouagadougou, Burkina Faso**
▪ Develop a mobile application in flutter for learning irregular verbs in english (**Flutter/Dart**)

08/2023 – 10/2023

Yaangre Tech; Internship, Ouagadougou, Burkina Faso

- Developed a software app for local data transferring (**python**)
 - Helped the team to develop a community management web app for Yaangre Tech
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ADDITIONAL INFORMATIONS

Certificates

- **FORCE N Senegal:** AI & Data (Artificial Intelligence. Data Collection and pre-processing, Natural Language Processing (NLP) & Computer Vision, ML/DL, Deployment&Monitoring)
- Google Data Analytics Professional Certificate
- Frontier Tech Leaders Programme Machine Learning Bootcamp
- UN Volunteers in Community Communication and Administration Support certificate
- Generative AI overview for project managers of Project Management Institute
- Hands-on training on developing artificial intelligence by Microsoft and Zindi community on Responsible AI Dashboard and Azure Content Security for Azure Open AI.
- From Zero to Hero-Digital Product Development from Scratch of Technical University of Munich
- Online Security Specialist - Internet Society Burkina Faso Chapter
- Introduction to artificial intelligence offered by Institute De Montaigne
- 10000 Coders Digital Passport Certificate
- Introduction: to Responsible AI, to LLM, to Generative AI of Google Cloud
- Training on how to present your project in a persuasive way
- Certification acquired in digital marketing with artificial intelligence and on how to use AI to succeed in your online business effectively
- Canva design certificate
- Training in associative leadership and holding effective meetings
- Training on how to present your project in a persuasive way

Leadership certificates :

- Success Mindset
- Effective Leadership
- Certified as UPG Sustainability Leader 2024 for positive citizen Leadership :
- **HP Life Entrepreneurship** Certificates (Finance, Design Thinking, Business Skills)

Skills & qualifications	<ul style="list-style-type: none"> ▪ Web & Mobile development (JavaScript (React.js, Vue.js (bases), TypeScript; Tailwind CSS, Node.js; HTML5, CSS3, Bootstrap, Flutter, React Native (base), Angular) ▪ Backend & API : Python (Django, FastAPI, Flask), Laravel, API RESTful, Swagger (tests) ▪ IA & Data Science : ML/DL (TensorFlow, PyTorch, OpenCV, Roboflow, Weights & Biases), data analysis and visualization (Pandas, NumPy, Matplotlib, Seaborn, sklearn, SciPy, Tableau, Streamlit, R) ▪ Database(Postgresql, sqLite, MySQL, Mongodb) ▪ Deployment & DevOps Tools: Netlify, Hugging Face Spaces, Vercel (base), Docker ▪ Cybersecurity: Best development practices, API protection, access management ▪ Design & Collaboration : Figma, Canva, UML, Git/GitHub/GitLab, Jira, ▪ Microsoft Office tools (Word, Excel, PowerPoint, MS Project), VBA ▪ IoT: Arduino (basic knowledge), simulation tools (Wokwi, Blynk, Tinkercad – basic knowledge) ▪ Others: Research Writing with Latex Digital marketing, entrepreneurial project management, Cover Letter and CV writing Leadership Project presentation, AI
Extra-curricular activities	<ul style="list-style-type: none"> ▪ JCI (member) AEEMB (member) Communauté LinkInd Tour BF (member) Community Zindi Africa , GeoAI Africa's, Burkina Canva community leading (member) Trader (Electronic devices) United People Global (member) Social media manager Trainer Ambassador 10000 codeurs Burkina Faso Student Forum launched by JCI Koudougou as a member of the organizing committee BIT News club President of the organizing committee of the International Forum on Digital Professions in Ouagadougou
Languages	<ul style="list-style-type: none"> ▪ French (advance) English(Professional working proficiency) Dafing(native) Dioula
Personal interests	<ul style="list-style-type: none"> ▪ Leadership Technology Technology watch IA&Data programming Reading Football News

Ouagadougou, November 4th 2025

