



# DESAILLY CALEB DEROUX

AI Engineer | Data Analysis | UI/UX Designer

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## EDUCATION AND QUALIFICATIONS

- **Licence MIAGE** (Computer Science Methods Applied to Business Management) – Polytechnic University of Bingerville (UPB) | Awarded September 11, 2026  
*Goal: pursue a Master's in Data Science / Artificial Intelligence*
- CDCI Capital Certificate in Project Implementation | August 2025 and May 2026
- Bridge Language French Language Certificate | December 2023
- High School Diploma (Science track) | Bingerville Boys' High School | 2023

## SKILLS AND ABILITIES

\_Applied AI & research (RRF, embeddings, LLMs)  
\_Python / FastAPI development  
\_Vector databases (Supabase, pgvector)  
\_Web development (React / TypeScript)  
\_UI/UX design (Figma)  
\_Project management

## HOBBIES

- Scientific research
- Modern art
- Deep thinking
- Creative design

## TOOLS

PYTHON-JUPYTER-FASTAPI-PGVECTOR-  
REACT/TYPESCRIPT-SUPABASE-GOOGLE  
GEMINI-FIGMA

## PROFESSIONAL EXPERIENCE

- **Technician (Internship) | July – September 2026**  
**AERIA (operator of Félix Houphouët-Boigny International Airport) – Technical Department / OTI Unit, Abidjan**
  - Designed a hybrid semantic search engine for maintenance data (FastAPI, pgvector, Gemini)
  - Reciprocal Rank Fusion (RRF) combining lexical and vector search
  - Evaluated on 58 annotated queries (TREC pooling): MRR lexical 0.233; vector 0.943; **hybrid RRF 0.983**
  - Worked on video surveillance networks (camera configuration, networking)
- **CTO and Co-founder | Present**  
**Soldat du Christ (clothing brand)**
  - Defined the brand's technical architecture and digital tools
  - Design lead: visual identity, collections and marketing materials
  - Designed and managed the online store
  - Coordinated vendors and led product launches
- **AI Product Designer and Co-founder | Present**  
**Gama\_Labs**
  - Art direction and UI/UX design for all projects
  - Led AI integration across projects
  - Built AI pipelines
- **Participant – SIADÉ (agriculture innovation competition)**
  - Trained an AI model on annotated satellite imagery to assess crop health
  - Vegetation indices (NDVI) and computer vision for agricultural governance
- **UI/UX Designer | May – July 2025**  
**Klikici (e-commerce company, Marcory, Abidjan)**
  - End-to-end design of the e-commerce store website
  - Checkout flows, mockups and interactive prototypes (Figma)
- **UI/UX Designer**  
**Clinique Life – UI/UX design of the web app**