

# BRYANN YABI

Software Developer — Backend, AI & Systems

Gatineau, QC, Canada · (437) 685-2048 · [ithielyabi@gmail.com](mailto:ithielyabi@gmail.com)  
[linkedin.com/in/bryann-yabi](https://linkedin.com/in/bryann-yabi) · [github.com/Brith6](https://github.com/Brith6) · [bryannyabi.dev](https://bryannyabi.dev)

## SUMMARY

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Software developer comfortable owning the full delivery chain, from backend architecture to deployment. Designed and built the complete backend of an AI-powered, multi-tenant SaaS contact-center platform (Django/DRF, RAG microservice, real-time, WhatsApp/Meta integrations, ~213 automated tests). Also strong in low-level C/C++ (networked game engine, algorithms). Bilingual: native French and professional English (C1). Seeking a backend or systems developer role in the Ottawa-Gatineau region, with a strong interest in applied AI and robotics.

## TECHNICAL SKILLS

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- **Programming Languages:** Python, C, C++, Bash, Haskell
- **Backend & APIs:** Django 6 / Django REST Framework, FastAPI, REST APIs, WebSocket (Django Channels), Celery, JWT, OAuth2, Laravel
- **Applied AI:** RAG & semantic search (pgvector), multi-LLM integration (Anthropic, OpenAI, Ollama), vision/OCR, deep learning fundamentals
- **Systems & Low-Level:** C/C++, network programming (TCP/UDP), Entity-Component-System (ECS) architecture, multithreading & concurrency, algorithms (Minimax, Alpha-Beta)
- **Databases:** PostgreSQL, MySQL, Redis
- **DevOps & Tools:** Docker, CI/CD (GitHub Actions), Git, Linux/Unix, Kubernetes (basics), Sentry, OVH

## PROFESSIONAL EXPERIENCE

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### BestCash — Lead Backend Developer / Technical Lead

Apr. – Aug. 2026

*End-of-studies internship · SmartCare — multi-tenant SaaS omnichannel contact center with AI · Remote*

- End-to-end design and development of the SmartCare backend: modular multi-tenant architecture (Django 6 / DRF, ~33 tables), JWT authentication (rotation + blacklist), and strict per-organization data isolation.
- Integrated an omnichannel pipeline across 5 channels (WhatsApp Cloud API, Messenger, email SMTP/IMAP, web widget): full ticket lifecycle, queuing, and an intelligent-routing escalation system.
- Built an AI microservice (FastAPI + pgvector) for RAG: knowledge-base ingestion (PDF, URL, text), semantic search, multi-provider support (Anthropic, OpenAI, on-premise Ollama), and vision/OCR.
- Implemented real-time features (WebSocket via Django Channels) and asynchronous processing (Celery + Redis): live messaging, agent presence, notifications, and scheduled tasks.
- Developed billing (subscriptions, wallet, Mobile Money payments) with automatic organization suspension and reactivation based on payment status.
- Security & compliance: integrated an IAM system (~53 permissions, HMAC synchronization), encryption of channel credentials at rest, production hardening (TLS, throttling), and the Meta App Review process (GDPR).
- Quality & operations: ~213 automated tests, OpenAPI 3.1 documentation, observability (correlated logging, Sentry), CI/CD (GitHub Actions), Docker containerization, and deployment on OVH.

### Technodata Solutions — Full-Stack Developer

Nov. 2024 – Jan. 2025

*Cotonou, Benin*

- Designed and built an internal HR management ERP in Laravel (dashboard, access and role management).
- Automated server deployments (Plesk) and maintained/upgraded websites (WordPress/PHP), implementing security measures (reCAPTCHA v3).

## TECHNICAL PROJECTS

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### R-Type — C++ Multiplayer Game Engine

Sept. – Nov. 2025

- Networked multiplayer game engine built from scratch in C++, with a modular Entity-Component-System (ECS) architecture.

### Gomoku — Game AI (C++)

Dec. 2025 – Jan. 2026

- Competitive C++ bot implementing Minimax with Alpha-Beta pruning for time-constrained strategic decision-making.

### Whanos — Deployment Automation Platform (CI/CD)

Oct. – Nov. 2025

- Automated deployment: language detection and containerization (Bash/Groovy), orchestration on a Kubernetes cluster, and multi-architecture Docker images.

### AREA — Automation Platform (IFTTT/Zapier-style)

Nov. 2025 – Jan. 2026

- RESTful architecture (Django) with an asynchronous execution engine (threading & polling) and OAuth2 authentication (Google, Discord, GitHub).

## EDUCATION

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### Bachelor's Degree in Computer Science — Epitech 2024 – 2026

Cotonou, Benin · 3-year program (French degree) · Specialization: Software Engineering & Innovation

### High School Diploma — French Scientific Baccalaureate 2023

Lycée Français Marcel Pagnol, Abuja, Nigeria · Mathematics & Physics specializations

## LANGUAGES

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- **French:** Native
- **English:** Fluent / Professional (C1)

## INTERESTS

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Hackathons · Robotics · Artificial Intelligence · Emerging Technologies · Music