

Christelle RAMAROKOTO

Senior Software Engineer | AI Engineer

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Senior full-stack engineer with 10 years of experience designing and scaling software systems that have to hold up in production. Machine Learning Engineer certificate from Mines Paris – PSL. Co-founder of Anatol Labs, where I lead the architecture and the engineering. We launched Matchamind on the App Store and Google Play in August 2026.

EDUCATION

Mines Paris – PSL Executive Education • Remote, France

Master's-level Certificate in Machine Learning Engineering • June 2025 - December 2025

- **Data Product Manager:** data project scoping, governance, AI product strategy
- **Data Scientist:** design, training, evaluation, and optimization of models (classical and deep learning)
- **MLOps:** production deployment of AI models, CI/CD automation, performance monitoring (prediction quality, drift), and scalability

Ib Cegos • Remote, France

Agentic AI – Design of multi-agent applications based on LLMs (LLM-MA) • June 2025

National Institute of Applied Sciences of Rouen (INSA Rouen) • Rouen, France

Engineering Degree, Information Systems Architecture • 2011 - 2016

PROFESSIONAL EXPERIENCE

Dickson (environmental monitoring & compliance) • Montpellier, France

Senior Software Engineer • March 2026 – Present

- Build and evolve **backend services in Ruby and Elixir** on DicksonOne, the cloud platform behind Dickson's environmental monitoring — temperature, humidity, CO2 and differential pressure across more than 100,000 monitoring points
- Work to a high bar on **performance, reliability and maintainability** across continuous ingestion, monitoring and analytics of time-series IoT data, in regulated environments (FDA 21 CFR Part 11, GxP, CLIA, CAP) where silent data loss is not an option

Anatol Labs (AI product studio) • Montpellier, France

Co-Founder & Technical Lead • January 2026 – Present

- Co-founded a two-person studio and built the technical product for **Matchamind**, a daily-practice app for emotional well-being, launched on the App Store and Google Play in August 2026
- Designed and built the **full-stack architecture**: Django/DRF API with Celery, Expo/React Native app, marketing site and infrastructure as code
- Designed and built the **content-safety layer** with crisis routing, and a **versioned evaluation harness** (deepeval + pytest) over golden corpora, with model and temperature selected per pipeline from measured sweeps
- Engineered around **GDPR Article 9 health data**, and hardened delivery with circuit breakers, backoff retries, prompt-injection defences and Sentry/Axiom observability

Dualsun (French solar solutions provider) • Remote, France

Technical Lead • February 2024 – March 2025

- Led the **post-acquisition integration** of a mobile energy monitoring and optimization app, designing the **target AWS architecture and migration strategy**
- Migrated **100% of services** off the **legacy mobile architecture** to production
- Established **company-wide development practices**, improving code quality and maintainability while **reducing long-term maintenance costs and delivery risk**

Fullstack Software Engineer & Scrum master • January 2022 – February 2024

- Built **Ruby on Rails REST APIs** and **Angular components** for a B2C matching platform
- Built a **B2B lead purchasing API with B2C geolocation-based matching**, integrating an algorithmic **allocation logic** to ensure progressive and fair satisfaction of professional clients (from 50 to 100% automatic allocation, reducing manual labor from 10 person-days per month to zero)
- **Automated deployments** (reduced deployment time from 1h to 10min, increased release frequency from bi-weekly to 3/week, created review/test/production environments) through CI/CD setup using GitHub Actions and Heroku

Klanik (IT services company) • Montpellier, France

Fullstack Software Engineer • September 2020 – January 2022 • For Crédit Agricole Technologies & Services

- Designed and implemented a centralized **Identity and Access Management (IAM) API** in Java, serving multiple internal applications within a large banking information system and improving the consistency and security of authentication flows

Osaxis (IT services company) • Paris, France

Fullstack Software Engineer • February 2016 – August 2020

- Development and maintenance of fullstack web applications for major clients (Bpifrance, Primonial, Allianz) in **demanding business environments** (banking, insurance, wealth management)

PROJECTS

Rakuten Multimodal Classification Platform (Mines Paris – PSL - 200h) • 2025

Multimodal (text + image) product classification model: versioned datasets, ML pipelines, MLOps monitoring and production deployment.

Fridge council • December 2025

Multi-agent AI web app generating meal plans from unstructured input: agent orchestration, safety guardrails, parallel reasoning and arbitration. Python, FastAPI, LangChain, Angular, Docker, Railway, NVIDIA NemoTron.

TECHNICAL SKILLS

Architecture: System and software architecture, object-oriented design, microservices, API design, frontend and backend web development

Languages & Tools: Ruby, Ruby on Rails, Python, FastAPI, TypeScript, JavaScript, React, Angular, SQL, Spring, RESTful APIs, CSS, Java, PostgreSQL, PostGIS, Redis, Git

Data Science & Machine Learning: Statistics, data preprocessing and visualization, supervised and unsupervised learning, feature engineering, model evaluation, Scikit-learn, Deep Learning, NLP, Computer Vision, MLOps, MLflow, Agentic AI

DevOps & Cloud: CI/CD, GitHub Actions, Jenkins, Docker, Heroku, AWS, Infrastructure as Code, Prometheus, Grafana

Project & Product Management: Agile, Scrum, Project management, Team coordination, Reporting, JIRA, Notion

LANGUAGES

French C2 (native)

English C1 (TOEIC 980/990)

Japanese A1 (JLPT N5)

INTERESTS

Cooking — experimentation, cultural discovery and iteration, even on the plate. Sewing — hands-on creation as a counterbalance to the digital world.