

Iniaki A. Boudiaf

Software Engineer | AI Engineer | Data Scientist

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Profile

Software and AI engineer with four years of experience building production systems in fast-moving start-up and scale-up teams. Turns ideas into working products quickly, from overnight prototypes to production-ready releases within a week. Combines Python and TypeScript engineering with data science, machine learning and LLM applications. Holds a Distinction in MSc Data Science and a First Class BSc in Financial Mathematics.

Core Skills

Languages: Python, TypeScript, JavaScript, SQL, Java, R, MATLAB, HTML, CSS

AI & ML: LLM applications, RAG, MCP, prompt design, NLP, neural networks, fraud detection, model evaluation, AWS Bedrock, LlamaIndex

Frameworks: React, Next.js, Tailwind CSS, FastAPI, Hono, Node.js, Flask, Django, Supabase

Tools: Git, GitHub Actions (CI/CD), Playwright, Docker, Linux/macOS, Vercel, AWS, GCP, PostHog, Sentry, k6

Data: PostgreSQL, MongoDB, SQLite, Pandas, NumPy, scikit-learn, TensorFlow, ECharts, D3.js

Project Management: Agile, Team Collaboration, Mentoring, Code Reviews

Work Experience

Fanvue – AI Personalisation Engineer

November 2025 – Present

Built AI systems used daily by the CEO and his team, including a private search and memory layer over company communications and a proactive agent that drafts work for approval.

Improved retrieval accuracy from 86% to 92.6% by diagnosing a ranking flaw.

Rebuilt an automated meeting coach as a service with a modelled 93% cut in LLM cost.

Shipped product features and new apps to the Fanvue App Store, and load tested production.

Built creative apps and a ten-game Minigames MVP for the new business models team.

Automate QA workflows with Playwright and CI on GitHub Actions.

Mentor colleagues through AI office hours and reusable AI tooling.

SIGMA Financial AI – Data Engineer

October 2022 – March 2026

Engineered a crucial product demo for early-stage fundraising, instrumental in securing investment.

Built a feature-rich B2C financial application using React, with AirWallex payments and real-time alerts.

Developed key components for AIMA, an LLM-based RAG system, using Python, FastAPI and AWS Bedrock.

Took on spikes to explore new possibilities, such as explaining parameters within the B2C app.

Time Machine Capital 2 – Junior ML Engineer

November 2022 – January 2025

Applied NLP to extract sentiment from financial tweets and generate signals.

Built and tested text-to-SQL models and a fraud detection prototype on Ethereum data.

Prototyped frontends for ML models in Flask and Django, accelerating user feedback cycles.

Projects

CasaFinder

Flat-hunting pipeline shipped as a notarized macOS app. Playwright scrapers, Claude scoring and a Telegram bot that learns from star ratings.

Project Ascent

3D climbing puzzle game with a deterministic C# engine (constraint solver, route generation) and a Unity 6 client.

TaxMate

AI-assisted UK Self Assessment where every HMRC box traces back to its source transactions.

TravelBug

AI travel-planning platform generating personalised day-by-day itineraries using LLMs and real-time APIs (Amadeus, Google Places). Built with FastAPI, PostgreSQL, Supabase and React, leading a small team.

Education

University of Hertfordshire – MSc Data Science

Sept 2021 – Sept 2022 – Distinction

Thesis: Forecasting Ethereum gas fees using statistical, ML, and DL models.

University of Hertfordshire – BSc Financial Mathematics

Sept 2018 – Aug 2021 – First Class Honours

Project: Portfolio optimisation using single and multi-variable techniques.

References available upon request.