

Yassin Bagane

Software Engineer

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🔗 yassinbagane 📄 No work permit needed

PROFILE

I build data-intensive software and AI-powered products end-to-end, covering everything from data extraction and processing pipelines to APIs, AI workflows and cloud infrastructure. I've worked with millions of records, document processing, semantic search and production SaaS systems For 3+ years I have designed and operated production-grade data systems, AI, backend systems and cloud infrastructure. My core stack is Python, Typescript, AWS, and Postgres, but what I care most about is the quality of what I leave behind: tested, documented and built to last
Beyond the professional work, I enjoy building SaaS products, exploring AI, traveling and spending time with friends and family

PROFESSIONAL EXPERIENCE

Wequity, *Software Engineer* 12/2025 – 07/2026 | Remote

- Built automation for legal-document workflows with Supabase + FastAPI + Google Vision API/Vertex AI on GCP, focusing on production-grade scalability and reliable data flows.
- Implemented backend services in TypeScript/Node.js alongside Python APIs to orchestrate ingestion, validation, and enrichment pipelines for unstructured inputs.
- Delivered real-time product experiences (subscriptions/webhooks) with clean React patterns and strong collaboration in Agile sprints, including code reviews and architectural discussions.

Datavid, *Software Engineer* 07/2023 – 12/2025 | Remote

- Designed and maintained **pipelines** using **AWS** for large scale documents processing.
- Developed and optimized workflows to extract, clean, and transform structured and unstructured data from multiple sources.
- Developed a **scalable web scraper** to collect and organize documents from multiple websites with high accuracy and reliability.
- Improved system efficiency by implementing a **document caching mechanism**, reducing AWS Textract costs and processing time by preventing redundant document scans.
- Supported Angular frontend development by shipping user-facing features and bug fixes, collaborated closely with Product/Design to deliver responsive, polished, user-centric experiences.

Puzzle Software, *Software Engineer Intern* 02/2023 – 06/2023 | Cluj- napoca, Romania

- Developed a mobile and web platform for ophthalmologists to monitor patients with macular diseases, enabling remote vision testing, patient management, and treatment progress tracking.
- Designed and deployed cloud infrastructure using AWS and GitHub Actions

3D Wave Design, *Software Engineer Intern* 06/2022 – 08/2022 | Sousse, Tunisia

- Developed a Web application using React that enabled doctors to securely manage patient records and access lab results instantly.
- Digitized medical folders and enabled real-time messaging via WebSockets, improving response time between doctors and patients.
- Delivered consistent progress through weekly CTO reviews, ensuring on-time milestones and feature completion.

SKILLS

React, React Native, Angular, Javascript, Typescript, NextJs, Python, DynamoDB, Opensearch, MongoDB, AWS, Git, Jenkins, Serverless, Docker, Postgres, Prisma ORM, Problem Solving, Web scraping, Data Extraction, Redis, Agile / Scrum, Fast API, CI/CD, AWS Glue, Redshift, Pyspark, Microsoft SQL Server, Qdrant, Playwright, Vercel

PROJECTS

Enervia 🗣, *AI-Powered Document Automation Platform for Solar Energy Installers (ongoing)* 09/2025 – Present

- Designed and shipped a client management system covering pipeline tracking, document automation, and a self-service customer portal
- Built an automated document-processing engine that extracts data from client uploads, auto-fills regulatory filings, and flags inconsistencies before submission
- Replaced manual chasing of client paperwork with a self-service portal, cutting back-and-forth email and reducing document turnaround time
- Owned the product end to end — UX, workflow design, data model and automation

Deo 🗣, *AI Legal RAG & Document Management Platform*

- Built a RAG assistant for legal documents — chunked and embedded content into a Qdrant vector store and combined semantic search with GraphRAG relationship traversal to answer questions with page level citations across multiple documents.
- Implemented multi-tenant auth (organizations, role-based access, 2FA, passkeys)

- GitHub Actions CI/CD pipeline that builds a Turborepo-pruned multi-stage Docker image, pushes it to Amazon ECR and performs rolling zero-downtime deploys to ECS on every push to master
- Integrated AWS S3 for document storage using time-limited presigned URLs for direct browser upload/download/view, offloading file traffic from the API

EDUCATION

Higher Institute of Applied Sciences and Technology of Sousse (ISSAT Sousse)

10/2020 – 06/2023 | Sousse, Tunisia

Computer science

LANGUAGES

English | French | Arabic