

Ayoub Belkhadir | Software Engineer | Backend Developer

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Professional Summary

Backend Software Engineer who architects high-impact, AI-driven solutions on AWS. My expertise in Python, FastAPI, and DevOps has been proven to automate complex processes, reduce developer setup time by over 90%, and increase data throughput by 100%. I build and deliver scalable, data-centric applications that solve critical business challenges and drive measurable value.

Professional Experience

ESCODEVE

Back-end Developer

Morocco

May 2024 – Sep 2024

Client: Zyllo (zyllo.io)

- Architected and launched an AI-driven matching feature (FastAPI, Celery, AWS) to replace a manual discovery process, cutting operational time by 90% and unlocking 5-12% in additional cost savings by automatically detecting overbilling and optimizing contract terms.
- Developed a novel bulk AI price analysis capability that automated large-volume document processing, increasing data processing throughput by 100% and unlocking new analytical insights.
- Engineered the migration of core processes to a modern Agentic framework (AWS Strands), boosting system efficiency and enhancing scalability for future development.
- Implemented Dev Containers to create a consistent and reproducible development environment, reducing environment setup time for new engineers by over 90% (from 20 minutes to under 2 minutes).

Client: Wawashi (wawashi.fr)

- Confronted a 5-day manual, error-prone invoicing process with the goal of full automation; engineered a new billing system from the ground up, which eliminated manual work, improved billing accuracy to 100%, and freed up significant team resources monthly.
- Designed and deployed an automated invoice and receipt processing tool using AWS Textract, reducing manual document review time by 35% and improving data validation accuracy by 15%.

Technical Projects

Online Ping-Pong Game (OverPing)

Dec 2023 – Feb 2024

- Engineered the back-end services for a real-time SPA, implementing WebSocket communication for live chat and gameplay. Utilized Docker to containerize the application, ensuring a consistent and seamless deployment process for a highly engaging user experience.

High-Performance HTTP Server

Oct 2023 – Dec 2023

- Built and stress-tested a C++ web server from scratch using the select system call to handle concurrent connections, achieving the ability to manage 100 simultaneous HTTP requests with high uptime.

Education

1337 Coding School – UM6P Ben Guerir

Software Engineering

Nov 2021 – Present

Member of the 42 Network, an OCP and UM6P-sponsored program featuring a peer-to-peer, project-based learning model with an intensive curriculum in systems programming, DevOps, and collaborative problem-solving.

Technical Skills

Languages: Python, Go, TypeScript, C++, C

Databases: PostgreSQL, Neon, Prisma, SQLAlchemy

Back-End: FastAPI, Hono.js, Celery, RESTful APIs, Microservices, Pydantic, Echo Framework

Cloud & DevOps: AWS (Bedrock, S3, Textract, Strands SDK), Github Actions, Docker, Cloudflare (Workers, R2)

Tools: Git, GitHub, OpenAPI, Groq API