

Hamza Farissi

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SUMMARY

I am a Full-Stack Developer with a proven ability to design and deliver scalable web applications and cloud-native solutions. My work has a tangible impact, such as creating a high-performance cryptocurrency trading system that slashed latency by 26% and crafting a serverless task management app that streamlined user workflows. As an AWS Certified Solutions Architect – Associate, I weave DevOps best practices into my projects to boost system performance and ensure scalability. My approach is fueled by a passion for clean code and innovative problem-solving, always aiming to build efficient, user-friendly applications that align with both technical excellence and business objectives.

TECHNICAL SKILLS

- **Languages:** C, C++, Python, JavaScript, SQL
- **Frameworks & Libraries:** Django, FastAPI, Node.js, Flask, React
- **Databases:** PostgreSQL, MongoDB, Redis
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, DynamoDB, IAM), Docker, CI/CD, Git, GitHub
- **Principles & Methodologies:** RESTful APIs, Microservices, System Design, Scalability, Test-Driven Development
- **Testing, Debugging & Other:** Unit Testing, Postman, Debugging Tools, Linux (Ubuntu), WebSockets

PROJECTS

High-Performance Order Execution and Management System

Jan 2025

- Built a low-latency trading system using **C++**, **WebSocket++**, and **Boost.Asio**.
- Integrated real-time market data streaming via **WebSockets** and optimized order processing.
- Used **Redis** caching and async operations to reduce API latency by 26%.

Image Processing Service

Dec 2024

- Developed an API for image upload, transformation, and retrieval using **FastAPI**.
- Implemented various image transformations such as resizing, cropping, rotating, watermarking, and filtering.
- Integrated JWT authentication for secure access to image processing functionalities.
- Stored images securely using AWS S3 and metadata in **SQLite**.

Taskify - Serverless To-Do List Application

Oct 2024

- Built a serverless to-do app with **AWS Lambda**, **DynamoDB**, and **Cognito**.
- Developed a **FastAPI** backend and **Next.js** frontend for a smooth UX.
- Used **AWS CloudFormation** for automated deployment.

EDUCATION

ALX Software Engineering Program

(Remote, Africa)

Completed 3 Trimesters | Focus: Backend Development, Cloud Computing, System Design

- Covered C, Python, JavaScript, SQL, Linux, DevOps, APIs, and Web Development.
- Hands-on projects including API development, deployment automation, and system optimization.

University Hassan II

(Casablanca, Morocco)

Bachelor's Degree in Economics & Management

2019 – 2023

Certifications:

- AWS Solutions Architect - Associate Feb 2024
- AWS Cloud Practitioner Oct 2023

ADDITIONAL

Languages: Fluent in Arabic, English; French

Soft Skills: Problem-solving, fast learner, adaptability, teamwork

Interests: AI, system design, backend optimizations, cloud security