



Nouredine Ettalhaouy

Software Engineer | Python • JavaScript • PostgreSQL

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Summary

Passionate R&D Engineer dedicated to building scalable, open-source business solutions through clean code, robust Object-Oriented design, and logical problem-solving.

EDUCATION

1337 Coding School (42 Network)
Software Engineering

Certificate
Tetouan • 2023 - Present

Abdelmalek Essaadi University
Network Administration & Information Security

Bachelor's Degree
Tetouan • 2023 - 2024

Cadi Aayad University
Software Engineering

Associate Degree
Marrakech • 2020 - 2022

WORK EXPERIENCE

Confidential (Leading AI Data Platforms)
Freelance Software Engineer – AI R&D

Remote
Oct 2024 – Present (Project-based / Part-time availability)

- **Code Optimization:** Evaluating and refining AI-generated Python and C++ code for architectural integrity, security, and performance, ensuring adherence to production-level OOP standards.
- **Technical Quality Supervision:** Designing edge-case testing scenarios and complex prompts that reduced model hallucination rates and improved logical consistency.
- **Documentation:** Authoring multi-step technical reasoning and gold-standard coding solutions to improve reward modeling and system transparency.

Infinitive Byte
Software Developer (Internship)

Tetouan, Morocco
Feb 2025 – Aug 2025

- **Backend Engineering:** Developed RESTful APIs and data pipelines using Python and Node.js to transform unstructured data into actionable business insights.
- **Full-Stack UI:** Built responsive dashboards with React.js, prioritizing usability and seamless data visualization for real-time analytics.
- **Infrastructure & Scaling:** Optimized PostgreSQL queries and implemented Redis for data streaming; containerized applications with Docker and established CI/CD pipelines.

TECHNICAL SKILLS

Languages

Python (Django, Flask, FastAPI), JavaScript (Node.js, Next.js, React), C, C++

Databases

PostgreSQL, MySQL, MariaDB, Redis (ORM optimization & complex queries)

DevOps & Tools

Docker, Linux (System Admin), Git, GitHub, CI/CD, Postman

Specialized

Object-Oriented Programming (OOP), RESTful API Design, AI Model Alignment (RLHF/SFT)

Languages

English

Professional Proficiency

French

Upper-Intermediate