

# Anass El Hannaoui

anass.elhannaoui@ump.ac.ma · 06 80 62 56 09 · linkedin.com/in/anasselhannaoui ·  
aelhannaoui-portfolio.vercel.app

## About Me

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I am a Fourth-year Data Science & Cloud Computing Engineering student passionate about AI, Machine Learning, and the ever-evolving world of technology. My curiosity drives me to explore diverse domains, from data-driven insights to scalable cloud systems and DevOps practices. While my academic foundation is in Data Science and Cloud Computing, I'm actively expanding my skills in DevOps, Software Development, and building secure, intelligent systems.

## Education

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**National School of Applied Science**, Oujda, Morocco Sept 2021 – Sept 2026  
Data Science and Cloud Computing Engineering

## Experience

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**Full Stack Developer Intern** August 2024 – October 2024  
Energy Consumption Management Platform (Heuristik Partners)

- Designed and implemented a PostgreSQL database for storing sensor data
- Developed a RESTful API using Spring Boot for real-time energy monitoring
- Built an interactive dashboard with Angular 18 for data visualization
- Deployed the application on Google Cloud

**Technologies used:** PostgreSQL, Spring Boot, Angular 18, Google Cloud, RESTful API

## Projects

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**AI-Powered Road Infrastructure Management System (PFA Project)** Ongoing (End of Semester)

- Developing an AI-based application for pothole detection using YOLOv8 and Vision Transformers
- Designing a real-time data processing pipeline with Apache Kafka and Spark
- Building an interactive mapping system with Leaflet.js and OpenStreetMap

**Technologies used:** YOLOv8, Vision Transformers, Apache Kafka, Apache Spark, Leaflet.js, OpenStreetMap

**RipAns – RMI Chat Application** Feb 2025 – Mar 2025  
Personal Project

- Built a real-time distributed chat system using Java RMI
- Established a client-server model enabling real-time messaging
- Implemented functionalities like private messaging, public chat, and user management

**Technologies used:** Java, RMI

**Portfolio Website** Ongoing  
Personal Project

- Built a personal portfolio website to showcase projects and skills
- Developed using Next.js, React, Vite, and TailwindCSS
- Optimized for performance, SEO, and responsiveness

**Technologies used:** Next.js, React, Vite, TailwindCSS

## Technical Skills

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### Programming Languages

Python, Java, C, JavaScript, SQL

### Full-Stack Development

React, Next.js, Angular, Node.js, Spring Boot

### Data Science

Python Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PyTorch

Database Technologies: PostgreSQL, MongoDB, Cassandra, Neo4j

### Cloud & DevOps

Currently learning cloud computing as part of academic curriculum

Enrolled in OCI DevOps Professional training

Working with Docker, Kubernetes, GitHub Actions, and CI/CD pipelines