Wiame Yousfi

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SUMMARY

Final-year Software Engineering student specializing in cloud computing and DevOps. Experienced in building and deploying scalable, containerized microservices using Docker and Kubernetes, and implementing CI/CD pipelines for efficient delivery. Skilled in leveraging cloud platforms and infrastructure automation to solve complex, real-world problems. Passionate about applying technology to design innovative, high-impact solutions for challenging industry needs.

EDUCATION

École Nationale Supérieure d'Informatique et d'Analyse des Systèmes Rabat, Morocco
Master of Science in Software Engineering *Sept. 2023 - July. 2026*

- Relevant Coursework: Algorithms & Data Structures, Computer Architecture, Operations Research, Theoretical Computer Science, Object-Oriented Programming, Compiler Design, Cloud Computing & Virtualization, DevOps Best Practices, Machine Learning

Lycée Moulay Youssef Rabat, Morocco
Classes Préparatoires - Mathematics, Physics, Computer Science *Sept. 2020 - June. 2023*

- Intensive two-year program preparing for competitive entrance exams to elite French and Moroccan engineering schools with a focus on advanced mathematics, physics, and computer science fundamentals

WORK EXPERIENCE

CDG (Caisse de Dépôt et de Gestion) Rabat, Morocco
DevOps & Software Engineering Intern *June. 2025 - July. 2025*

- Designed a comprehensive e-catalogue platform using microservices architecture, optimizing the management and centralization of shared services across financial, IT, and HR departments
- Built a resilient distributed system with 5+ microservices using Spring Boot and Spring Cloud, ensuring scalability, resilience, and maintainability for enterprise operations
- Established a complete CI/CD pipeline using Jenkins for automated build, test, and deployment processes
- Deployed an infrastructure on AWS cloud platform leveraging EC2, ECS, and RDS services for high availability and scalability
- **Technologies:** Spring Boot, Spring Cloud, React, Docker, Kubernetes, Jenkins, AWS (EC2, ECS, RDS), Grafana, Prometheus, PostgreSQL

MAMDA & MCMA Rabat, Morocco
Software Engineering Intern *July. 2024*

- Developed a comprehensive full-stack web application for IT equipment management, implementing employee assignment tracking and inventory management system
- Implemented a secure authentication and authorization using Spring Security with role-based access control, ensuring data protection and user privilege management
- Designed RESTful APIs and integrated MySQL database with optimized queries, improving data retrieval performance and ensuring efficient inventory operations
- Built a responsive React interface with real-time updates, enabling seamless equipment tracking and assignment workflows for IT administrators
- **Technologies:** Spring Boot, React, MySQL, Spring Security, Apache Tomcat, RESTful APIs, Postman

PROJECTS

E-commerce Microservices Platform ◯ GitHub
Scalable cloud retail system with AI-powered recommendations *Feb. 2025 - June. 2025*

- Architected an enterprise-grade e-commerce platform using microservices architecture with service discovery, load balancing, and circuit breaker patterns for high availability
- Implemented 8+ independent microservices for product catalog, user management, order processing, payment, and shipping management, ensuring system modularity
- Developed a React frontend with responsive design and real-time updates using WebSocket connections, enhancing user experience and engagement

- Built an intelligent recommendation system using Amazon Personalize with S3 bucket datasets, improving product discovery and user engagement
- Integrated AWS services including API Gateway for secure API management, IAM for permissions control, and comprehensive monitoring with Grafana and Prometheus
- **Technologies:** Spring Boot, Spring Cloud, React, PostgreSQL, Eureka, Docker, Kubernetes, AWS (API Gateway, S3, Personalize, IAM), Grafana, Prometheus

AsteroidWatch   :material-github: [GitHub](#)
Interactive space monitoring app for real-time asteroid tracking   *Jan. 2025 - May. 2025*

- Built a comprehensive web application for monitoring and analyzing near-Earth asteroids, providing real-time tracking and risk assessment capabilities
- Implemented an interactive 3D Earth visualization using React Three Fiber, enabling users to visualize asteroid positions and orbital trajectories
- Developed an asteroid comparison tool with radar charts and analytics, allowing detailed parameter analysis including orbital characteristics and threat levels
- Integrated NASA Neos API and JPL SBDB for real-time asteroid data retrieval, ensuring accurate and up-to-date astronomical information
- Implemented JWT authentication and an AI chatbot assistant using Retrieval-Augmented Generation (RAG) for enhanced user experience and personalized asteroid monitoring
- **Technologies:** React, Spring Boot, MySQL, Three.js, NASA APIs, JWT, Python, Docker, TypeScript, Retrieval-Augmented Generation (RAG), LangChain, Google Gemini

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, TypeScript, C, PHP, R, Bash, SQL
Backend Technologies: Spring Boot, Spring Cloud, Spring Security, Apache Tomcat, RESTful APIs, Microservices Architecture
Frontend Technologies: React, Angular, HTML5, CSS3, Tailwind CSS, Three.js
DevOps & Cloud: Docker, Kubernetes, Jenkins, GitLab CI/CD, AWS (EC2, ECS, RDS, S3), Grafana, Prometheus
Databases: PostgreSQL, MySQL, Oracle DB
Data Science: NumPy, Pandas, Matplotlib, Plotly, Seaborn, Scikit-learn
Tools & Platforms: Git, GitHub, GitLab, Postman, Maven, Gradle, Linux, Windows
Languages: *Proficient:* English — *Native:* French & Arabic

LEADERSHIP EXPERIENCE

Junior Entreprise ENSIAS   Rabat, Morocco
Co-founder & Vice President   *Jan. 2025 - Present*

- Co-founded and launched ENSIAS's first Junior Enterprise, establishing a bridge between academic learning and real-world IT project development
- Led a strategic planning and organizational development, recruiting students across specialized departments including training, prospection, and events management
- Secured partnerships with multiple IT firms, enabling students to work on industry-grade projects in software engineering, machine learning, and cybersecurity, enhancing practical skills and employability

Forum Géni Entreprises   Rabat, Morocco
Head of Prospecting & Sponsorship Cell   *Sept. 2023 - Present*

- Lead a cross-functional team of 30+ members in developing and executing comprehensive partnership strategies to attract corporate sponsors for annual career forum
- Successfully secured partnerships with 25+ major companies including multinational corporations and leading local enterprises for career fair participation
- Authored three technical articles on Artificial Intelligence and Quantum Computing for the annual forum magazine, contributing to knowledge sharing and industry insights

CERTIFICATIONS

[Agile Project Management (Google)](#)   *Apr. 2025*
[Cloud Computing Fundamentals (IBM)](#)   *Apr. 2025*
[Artificial Intelligence Analyst Certificate (IBM)](#)   *Mar. 2025*