OUSSAMA BEN SLIMA

Software Engineer

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Education

IMT Atlantique, Engineering Degree in Software Design and Development — Nantes, France (2022–2025)
- Ranked 3rd engineering school in France (L'Étudiant ranking). First year focused on general sciences, followed by specialization in software development, big data, and cloud technologies.

Preparatory Institute for Scientific and Technical Studies, Math/Physics Track — Tunis, Tunisia (2020–2022)

Professional Experience

Backend Engineering Intern, EDF — Palaiseau, France (Apr–Oct 2025)
- Migrated backend from Django to Java Spring, redesigned the architecture, optimized REST APIs for performance and scalability, implemented unit testing with JUnit, Mockito, and code coverage using JaCoCo.
- Deployed a CI/CD pipeline via GitLab, updated the frontend (TypeScript and Vue.js).
- Used data structures and Redis for caching to improve performance and computational complexity.

Fullstack Software Engineering Intern, Fives Stein — Maisons-Alfort, France (Apr–Sep 2024)
- Developed a C++ security library, created units tests with Google Test and collaborated via Git.
- Designed HMI architecture, participated in code reviews, developed new features in C# and .NET.

Projects

Cloud-Native Microservices Platform (Sep–Dec 2024)
- Built 4 services in TypeScript/Flask (REST, gRPC, GraphQL), deployed behind an API Gateway with load balancing and rate limiting, documented APIs with OpenAPI, and implemented CI/CD pipelines via GitLab.

Kubernetes Deployment on GCP with Terraform (Jan–Mar 2025)
- Containerized services with Docker, orchestrated with Kubernetes, and managed infrastructure using Terraform and GCP tools.

Web Applications Development (Jan–Feb 2025)
- Developed an Express.js backend utilizing WebSockets for real-time broadcasting, playlist management, and a user recommendation system.
- Built a web application using React.js, TypeScript, Tailwind CSS, and FastAPI, implementing user authentication management.

Elasticsearch project (Jan–Mar 2025)
- Designed Elasticsearch index mappings, optimized queries and aggregations, created visualization dashboards in Kibana.

Air Pollution Estimation with Neural Networks (Sep 2021–Apr 2022)
- Studied artificial neural networks independently, built and optimized a model's parameters, and trained it on air pollution data from Paris.

Skills

- **Programming:** Python, Java, SpringBoot, C++, C#, JavaScript, Haskell, PHP, TypeScript, Vue.js, React.js
- **DevOps:** Git, Docker, Kubernetes, Terraform, Google Cloud, OpenStack
- **Monitoring:** Kibana, Prometheus, Grafana
- **Big Data:** Hadoop, Spark, Kafka, Elasticsearch
- **Databases:** MySQL, PostgreSQL, MariaDB, MongoDB, Neo4j, Redis
- **AI/ML:** TensorFlow, PyTorch, Scikit-Learn
- **Soft Skills:** Critical thinking, adaptability, teamwork, communication

Languages

French (Bilingual), English (C1: IELTS Certified, Band 7), Arabic (Native), German (B1)

Interests

Travel, Weightlifting, Football, Music Mixing