

OUSSAMA SEFFAI

Software engineer

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<https://github.com/oussamasf>  <https://ousf.vercel.app/>

Summary

backend developer with a strong track record in designing and implementing systems architectures. Proven ability to develop scalable systems that handle high traffic efficiently. Committed to exploring new programming paradigms and improving software quality through practical, innovative solutions.

Technical Skills

Languages: Javascript/Typescript, Golang, Java, Python, and Rust

Frameworks: Node.js ,Express.js, and Nest.js; React.

Developer Tools: VS Code, VS-code debugger, Git, Postman, Jira.

Other technologies: Git, Github action, Docker, Docker-compose, HTML, CSS, Nginx, MongoDB, Redis ,SQL databases, Elasticsearch, Linux, AWS.

Recent experience

Legal Doctrine

April 2022 – current

Software engineering "Back-end mainly"

- Developed and integrated Express.js applications, improving system efficiency through better code readability and maintainability
- Implemented a comprehensive testing system, adhering to SOLID principles and design patterns to ensure high code quality. Collaborated with DevOps to optimize CI processes using Jest, GitHub Actions, and GitLab Runner, resulting increase in code reliability.
- Proficient in **Docker**, adept at containerizing and deploying applications, streamlining deployment and operational processes.
- Managed MongoDB by designing schemas, executing CRUD operations, and optimizing queries. Constructed aggregation pipelines to benchmark performance and costs, and designed complex tree-like data structures with version control, improving data manipulation and reliability.
- Implemented Redis as a caching layer, reducing database load and improving application response times.
- Designed a multilingual search engine using Elasticsearch, optimized for Arabic and French users. Implemented real-time indexing, enhancing user experience and search accuracy.
- Contributed to migrating modules to **TypeScript** and planning the transition to a **microservices architecture**, facilitating greater system scalability and robustness. Integrated **gRPC** for efficient microservice communication.
- Mentored new team members by providing guidance on code standards, development workflows, and best practices, ensuring smooth integration into project teams.

Projects

Equanimity | *Nest.js, Socket.IO, Redis, Nginx, Docker* **github: oussamasf/equanimity** **Aug 2023**

* Developed the Equanimity project using Nest.js and Redis, enabling efficient distribution of WebSocket connections across multiple instances.

- * Transitioned the application from a standalone to a distributed system, ensuring high availability and scalability.
- * Designed the application to manage WebSocket communication efficiently, handling a growing number of concurrent connections by running multiple instances. Utilized Redis Pub/Sub for inter-instance communication and implemented an Nginx load balancer to distribute incoming WebSocket requests.

Samyaza | *Nest.js, Elasticsearch, Docker* **github: oussamasf/samyaza**

Dec 2023

- Developed the Samyaza project using Nest.js and Elasticsearch to manage movies and series. The application enables users to manage their favorite movies and TV series, conduct searches, and access trailers.

Education

UMBB University

Sep. 2015 – May 2017

Master of Technology in Automation Engineering.

Languages

Arabic: native
English: advanced
French: intermediate