



# Hafedh Ben Slama

## Software Engineer

✉ hafedhbenslama14@gmail.com     github.com/benslamahafedh     linkedin.com/in/hafedh-ben-slama

### EDUCATION

#### Masters degree in Computer Science

Manouba, Tunisia

ENSI

National School Of Computer Science

#### Bachelor in Mathematics and Physics

Sfax, Tunisia

University of Science

### SKILLS

- Fast learning
- Stress management
- Great communicator
- Scrum and Agility
- API design
- Devops
- Docker
- SQL
- Backend Development
- Object Oriented Programing
- Cloud
- WebSockets

### PROFESSIONAL EXPERIENCE

#### Software Engineer

02/2024 – present

Integration Objects

Tunis, Tunisia

- Engineered a flexible and extensible architecture, facilitating the seamless integration of over 10 new features and functionalities with minimal disruption.
- Applied best coding practices and object-oriented programming techniques, implementing more than 5 design patterns such as abstraction, association, and chain of responsibility to tackle full-stack software development projects.
- Pioneered the incorporation of MQTT protocol functionalities into a web-based platform, enhancing the ease of monitoring and interaction with IoT devices by 50%.
- Engineered a real-time visualization feature enabling users to efficiently monitor, configure, and standardize data from diverse IoT devices, streamlining the process by 60%.

Keywords: Industry 4.0, IoT, Design patterns, SQLServer, InfluxDB, .NET, Angular.

#### Backend Software Engineer

09/2023 – 02/2024

Lemakland

Remote

- Directed backend development, including an abstract payment module, fully functional authentication, meeting module (Jitsi-based), and real-time notifications using Server-Sent Events.
- Led the migration from Express to Fastify, improving performance and reducing memory usage by 20%.
- Optimized SQL database design, reducing hosting costs by 60%, and implemented caching/pagination to minimize cloud bandwidth expenses.
- Architected deployment automation through Docker and CI/CD, resulting in a stable production environment that supported the integration of 3 new features monthly, directly contributing to product enhancement and user satisfaction

Keywords: NestJS, TypeORM, SQL, Twilio, Jitsi meet, Docker, Fastify, CloudFlare, GithubActions.

#### Software Engineer

07/2022 – 11/2023

Freelance

Remote

- Built web bots using advanced scraping techniques, reducing manual tasks by 80%.
- Demonstrated commitment to excellence by delivering innovative solutions across 10+ projects, ensuring optimal outcomes.
- Maintained and debugged client code across various languages and frameworks, including React.js, ensuring smooth functionality.
- Developed and implemented robust systems using HTTP and WebSocket protocols to efficiently stream and process data for further use.

Keywords: Web Scraping, Docker, Selenium, LLMS, ReactJS, Django, Nestjs, MySQL, Web Sockets.

### PROJECTS

#### Community Detection

01/2023 – 05/2023

- Spearheaded the development of a project utilizing GNN and clustering AI models to optimize workflow between students in school, enhancing efficiency by 70%.
- Crafted an intuitive interface tailored for teachers to efficiently execute clustering tasks, empowering them as primary orchestrators and streamlining group formation by 80%.
- Collaborated with 3 team members to ensure the seamless integration of Deep Learning Models with the system.
- Keywords: GNN, Kmeans, Django, React, SQL.