Sofiane Mallem *Software Developer*

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📍 Germany

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🪪 PROFILE

Aspiring Software Developer in training at 42 Heilbronn, with a Bachelor's degree in Computer Science and six months of internship experience. Proficient in software development, passionate about leveraging innovative technologies to tackle complex challenges. Looking to apply my skills in impactful tech projects.

🌐 LANGUAGES

French
Fluent, DALF (Advanced French Language Diploma)

English
Fluent, C2 Equivalent

German
Basic, A1

💼 PROFESSIONAL EXPERIENCE

Big Data Solutions, *Thesis-Internship: Software Developer* — 01/2020 – 07/2020 · Algiers, Algeria
- **Contributed to developing a CI/CD pipeline** for automating testing and deployment of a web scraping framework.
- **Assisted in designing and implementing** tests for web scraping spiders.
- **Collaborated with a team and client** to integrate and deploy solutions.
- **Supported optimization of deployment workflows**, enhancing efficiency and integration processes.

🎓 EDUCATION

Software Engineering, *42 Heilbronn* — 03/2023 – present · Heilbronn, Germany
Engaged in peer-to-peer learning, focusing on problem-solving, and collaborative projects.
- Critical Thinking   - Adaptability   - Self-Learning   - Time Management   - Resilience

Bachelors In General Computer Science, — 09/2017 – 06/2020 · Algiers, Algeria
University Of Science And Technology Houari Boumediene
- Algorithms & Data Structures   - C/Java/Python   - Software Engineering Principles

📁 PROJECTS

Transcendence, *Django, PostgreSQL, JavaScript, HTML, Bootstrap, Docker, Redis, Daphne*
- Collaborating on a multiplayer Pong platform that adheres to REST architecture principles and implements user management with secure user authentication over HTTPS.
- Containerizing the application with Docker: Django backend, PostgreSQL database, and JS frontend.
- Enabling real-time messaging/match-making through WebSocket support with Daphne and Redis.

All-Chat, *Go, MariaDB, JavaScript, HTML, CSS, NGINX, Docker*
- Developed a chat application featuring user management and essential social interactions.
- Demonstrated full-stack development skills across the frontend, backend, and database in three containers.

Inception, *Docker, NGINX, WordPress, MariaDB, Alpine*
- Built a virtual infrastructure using Docker Compose with Dockerfiles for NGINX (with TLS), WordPress (php-fpm), and MariaDB, with robust container management.

Ft_IRC, *C++, Non-blocking I/O, Socket Programming*
- Developed an IRC server using non-blocking I/O to manage concurrent clients. Implemented features such as client authentication, messaging system, and channel management to facilitate communication.