# Tarek Messaoudi

#### Full Stack Engineer

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#### Education

2012 - 2017 **IMT Lille-Douai** 

Software engineer major // with a foreign semester in South Korea at Chugnam National Univ. Internships at Capgemini, GFI, Alliance Française Limassol, Lille 2 University, Norauto

#### Technical Skills

Programming Languages: 📆 TypeScript, 📆 JavaScript, 🤚 Python, 👙 Java

Frontend Development: React, Tailwind CSS, Remix

Backend Development: (§) NodeJs, (§) Deno, (4) FastApi, (5) Spring

Other Technologies: 🐡 Docker, 🔞 Kubernetes, 🚸 Git, 🧘 Linux

### Work Experience

2020 - Present **Full Stack Engineer** 

Qynapse // A healthcare technology company specializing in neuroimaging and AI

🧠 Medical Imaging Web Platform Redesign

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- Refactored with a new admin panel, interactive data visualizations, and a robust MRI viewer, ...
- Added features such as segmentation correction, lesion tracking, 3D rendering, oblique views, multi-modality
- Maintained long-term stability of the viewer through refactors and testing
- Reporting System Overhaul
- Rebuilt the report generation pipeline using Jinja2 + Puppeteer (HTML → PDF)
- Redesigned templates for multiple languages and disease-specific variations (e.g., Dementia, MS, ...)
- Scalable Infrastructure & Microservices
- Contributed to converting the academic BrainVisa platform into a Kubernetes-based scalable pipeline
- Maintained and expanded the customer-deployed DIMSE agent, adding routing logic and detailed logging
- 🧬 Domain-Specific Tools
- Built a normative Python library to compute statistical imaging metrics (z-scores, percentiles, asymmetry, ...)
- Developed a 3D mesh microservice for structural MRI data

2017 - 2020 **Full Stack Engineer** 

Alter Solutions // A consulting and IT services company

IRT System X: Central Dashboard promoting research project webservices

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**4 C** 

- Develop the whole application from scratch
- 🖀 SFR Altice Group: Brand-new customer service web app
- Refactor the whole custom CRM with new technologies and architecture
- Added core features (Mail/SMS notification, Tray system, ...)
- 🦣 Thalès: Local web app displaying military data from Excel file
- Create a user-friendly tool for data vizualizing inventory file (.xlsx)
- APSA: Online tool to parse automobile file format (.a2l and .hex, .ulp)
- Set up a backend service for parsing efficiently raw data files

## **Projects & Rewards**

**LOM** (GitHub) - Browser strategy game

"Entreprise du Futur" Reward (Site) - By Thalès, from Challenge Entreprendre