Mohamed Cherif Gharbi

Full-Stack Web Developer & Data Analyst

Constantine, Algeria | +213 5 59 68 26 09 | gharbi_cherif@hotmail.com | www.cherif-gharbi.com

PROFESSIONAL SUMMARY

Full-stack web developer and data analyst with 5+ years of experience building responsive, high-performance web applications (React.js, TypeScript, Node.js) and engineering ETL data pipelines in Python. Proven track record designing automation workflows (n8n), integrating RAG architectures and AI agents with OpenAI APIs, and delivering data-driven insights across geospatial and mineral-resource domains. Experienced in remote, cross-functional teams and in leading technical training programs.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, PHP, SQL

Frameworks & Libraries: React.js, Node.js, Express.js, jQuery, GeoPandas, Pandas, NumPy

Databases & Tools: MySQL, PostgreSQL, Git, cPanel, SSH

Automation & AI: n8n, LangChain, OpenAI API, Retrieval-Augmented Generation (RAG) architectures

Other: Web scraping, OAI-PMH protocol, SEO optimization, Web accessibility standards

PROFESSIONAL EXPERIENCE

Full-Stack Web Developer — *Parene.org (Lyon, France — Remote)* **2022 – 2025**

- Designed and developed responsive, highly interactive user interfaces using React.js, TypeScript, JavaScript, and jQuery.
- Contributed to comprehensive platform redesigns, implementing responsive design best practices, cross-browser compatibility, and web accessibility standards.
- Developed automated scripts to harvest large-scale metadata via web scraping and the OAI-PMH protocol, streamlining data collection for backend processing.

Full-Stack Web Developer — *Freelance* **2022 – 2025**

- Built tailored e-commerce platforms from scratch, integrating product catalogs, secure shopping carts, and dynamic administrative dashboards.
- Created high-performance static showcase websites optimized for search engines (SEO), page speed, and mobile responsiveness.

Automation & AI Engineer — *Mra Paysagiste (Canada — Remote)* **2022 – 2025**

- Architected and deployed advanced automation workflows using n8n to streamline corporate operations.
- Orchestrated data flows to automatically assign and synchronize operational tasks from specialized microservices into the Asana project management platform, reducing manual data entry and human error for field teams.
- Designed and implemented Retrieval-Augmented Generation (RAG) architectures; engineered custom autonomous AI agents using OpenAI APIs connected to internal knowledge bases to automate contextual query analysis across multiple industries.

Data Analyst — *Parene.org / Freelance* **2020 – 2025**

- Built and optimized ETL pipelines in Python, processing unstructured web data and specialized metadata protocols into clean, structured datasets.
- Applied statistical methods and data modeling techniques to identify trends and anomalies within large-scale database systems.
- Synthesized complex technical datasets — including geospatial data, mineral resource metrics, and material properties — to support predictive modeling and structural analysis.
- Developed dynamic data visualizations and analytical reports translating complex metrics into clear business insights for stakeholders.

Training Center Director — *Global Science Academy* **2020 – 2024**

- Designed and delivered hands-on training curricula in Python programming, full-stack web development, and database management for professional adult learners.
- Provided strategic, pedagogical, and administrative direction for the training facility, ensuring operational excellence and alignment with educational standards.
- Formulated professional training tracks, managed end-to-end recruitment of instructors, and led high-level client relationship management.
- Monitored and optimized professional development tracks, ensuring high student satisfaction and certification success rates.

EDUCATION

Master's Degree in Mineral Resources and Geomaterials **2016**
Bachelor's Degree in Fundamental Geology **2014**
Baccalaureate, Experimental Sciences **2011**

CERTIFICATIONS

Professional Certification in Full-Stack Web Development **2017**

PORTFOLIO

www.cherif-gharbi.com