

Mohamed Cherif GHARBI

Web developer & Data analyst

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03/03/1993, Married

Constantine, Algeria

Professional Experience

Full-stack web developer

2022-2025

@Parene.org (Lyon, France – Remote)

- **Architecture & UI Development:** Designed and developed modern, responsive, and highly interactive user interfaces using **React.js**, **TypeScript**, **JavaScript**, and **jQuery**.
- **UI/UX Redesign:** Contributed to comprehensive platform redesigns by implementing responsive design best practices, cross-browser compatibility, and web accessibility standards.
- **Data Ingestion:** Developed automated scripts to harvest large-scale metadata via **web scraping** and the **OAI-PMH protocol**, streamlining data collection for backend processing.

@Freelance

- **E-Commerce Solutions:** Built tailored e-commerce platforms from scratch, integrating product catalogs, secure shopping carts, and dynamic administrative dashboards.
- **Performance & SEO Optimization:** Created modern, high-performance static showcase websites optimized for search engines (SEO), speed, and flawless mobile responsiveness.

@Mra Paysagiste (Canada, Remote)

- **Workflow Automation:** Architected and deployed advanced automation workflows utilizing **n8n** to streamline corporate operations.
- **System Integration:** Orchestrated seamless data flows to automatically assign and synchronize operational tasks from specialized microservices directly into the **Asana** project management platform.
- **Process Optimization:** Reduced manual data entry for field teams, significantly mitigating human error and increasing daily operational efficiency.
- **AI & RAG Engineering:** 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 various industries.

Data Analyst

2020 - 2025

@Parene.org | @freelance

- **Data Pipeline Engineering (ETL):** Built and optimized robust data extraction and transformation pipelines in **Python**, processing unstructured web data and specialized metadata protocols into clean, structured datasets.
- **Statistical Modeling & Analysis:** Applied advanced statistical methods and data modeling techniques to identify trends, anomalies, and actionable insights within large-scale database systems.
- **Domain-Specific & Spatial Data Integration:** Synthesized complex technical datasets—including **geospatial data**, mineral resource metrics, and material properties—to back predictive modeling and structural analysis.
- **Data Visualization & Reporting:** Developed dynamic data visualizations and comprehensive analytical reports to translate complex metrics into clear business insights for stakeholders.

- **Technical Instruction & Course Preparation:** Designed, prepared, and delivered comprehensive, hands-on training curricula focused on **Python programming**, full-stack **web development**, and database management for professional adult learners.
- **Executive Leadership:** Provided strategic, pedagogical, and administrative direction for the entire training facility, ensuring operational excellence and alignment with educational standards.
- **Program & Business Development:** Formulated professional training tracks, managed end-to-end recruitment of expert instructors, and spearheaded high-level client relationship management.
- **Operations Supervision:** Monitored and optimized the execution of professional development tracks, ensuring high student satisfaction and successful certification rates.

Education

- **Master's Degree in Mineral Resources and Geomaterials**
- **Professional Certifications in Full-Stack Web Development & Data Science**

Technical Skills

- **Programming:** Python, JavaScript, TypeScript, PHP, SQL.
- **Frameworks & Libraries:** React.js, Node.js, Express, jQuery, GeoPandas, Pandas, NumPy.
- **Databases & Tools:** MySQL, PostgreSQL, cPanel, SSH, Git.
- **Automation & AI:** n8n, LangChain, OpenAI API, RAG Architectures.

Portfolio

www.cherif-gharbi.com