

Mohamed Ali Hachicha

Software Engineer | Independent Consultant | Registered Auto-Entrepreneur

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mohamedalihachicha.com | LinkedIn | GitHub | npm: google-maps-vector-engine

4+ YEARS EXPERIENCE: OPERATIONS PLATFORMS, GEOSPATIAL DATA & AI INTEGRATIONS

Software engineer with 4+ years building and **running in production** web and mobile apps, AI-powered developer tools, data pipelines, and geospatial systems. Since Jan. 2026, I have worked independently as a registered Auto-Entrepreneur. I own delivery from architecture through CI/CD and production, with a focus on reliable systems and measurable business outcomes.

EXPERIENCE

TEKAB DEV

Jan. 2026 - Present | Independent Software Consultant | Remote

Sept. 2022 - Dec. 2025 | Software Engineer | Remote

Full-cycle delivery across web, mobile, data, AI, and geospatial products. Selected work:

Flying For You: operations platform for street-marketing (main client project, 2+ yrs in prod)

Full-Stack Engineer, Web, Mobile & Geospatial

Three interconnected apps built end to end: a back-office admin platform, a client reporting portal, and a field marketer mobile app. **Running in production for 2+ years, serving ~1,000 active users**, with continuous feature delivery, integrations, and performance work.

- Refactored and overhauled the Admin platform and field-marketer mobile app, shipping mission management, **live GPS tracking**, interactive maps, and KPI dashboards.
- Engineered a high-performance **Simulation API** and prepared geographic and demographic datasets (vector/raster tiles, GPKG, administrative boundaries, INSEE stats) powering campaign simulation in the Admin and Client platforms.
- Authored and **published google-maps-vector-engine**, an open-source npm package that renders Mapbox Vector Tiles (PBF) on Google Maps with full interactivity, and **cut geographic data-processing time by 60%** through a redesigned vector-tile rendering pipeline.
- Built and shipped the client's SEO-optimized showcase site (vitrine) with **top-tier SEO and 95+ performance scores**, driving **hundreds of organic visits per month**.
- Partnered directly with the client to translate business workflows into scalable architecture, and **owned CI/CD and reliable production deployments** end to end.
- Delivered business impact the client highly valued: **measurable revenue growth and operational cost savings** (*specific figures confidential under client agreement*).
- *Stack:* Ruby on Rails, React Native (Expo), React, Next.js, TypeScript, Python, Docker, QGIS, Google Maps SDK/API, OpenRouteService, INSEE data, AWS (S3, CloudFront), Scalingo, OVH, Cloudflare.

Backlog Genius: AI-powered project backlog generator

Full-Stack Developer

Converts project briefs into structured agile backlogs (user stories, tasks, features) with ClickUp sync. - Built the full-stack AI generator and the prompt/processing logic for high-quality, editable, GDPR-aware output. - Integrated the ClickUp API for one-click task creation. **Reduced project planning time by 50%**. - *Stack:* Vue 3, NestJS, OpenAI API & prompt engineering, ClickUp API.

Merge Genius: AI-powered pull-request reviewer

Full-Stack Developer

Automates GitLab PR reviews, detecting bugs, assessing quality, and posting actionable feedback via webhooks. - Engineered the review engine, reaching **95% detection accuracy** across **hundreds of PRs/week**; built a scoring system to track developer productivity and code-quality trends over time. - Tuned prompts and token budgets to handle large diffs without losing context. - *Stack:* Express.js, GitLab API, OpenAI API & prompt engineering.

Retchee: automated recruitment platform

Full-Stack Developer

Video / social-story-style candidate applications with automated tracking and recruiter-candidate communication. - Built a fluid Vue.js/Pinia UI (**-35% recruiter workflow time**) on a reliable NestJS/Prisma + PostgreSQL/Supabase backend. - Set up **Docker + GitLab CI/CD** for automated testing and continuous deployment; authored a custom CKEditor package. - *Stack:* NestJS, Vue.js, Prisma, Supabase, PostgreSQL, Docker, GitLab CI/CD, Cloudflare.

Accounting & Financial System Reform (MAS Group)

Full-Stack Developer

Real-time anomaly detection for missing intercompany invoices and payments. - Built financial data pipelines for audit and compliance; **identified and resolved 85% of missing intercompany transactions, improving audit compliance by 40%**. - *Stack:* Python, Pandas, SQL.

MAS Group

Jan. 2022 - Sept. 2022 | Full-Stack Developer

Currency Exchange Rates & Banking Indicators Scraper: automated daily collection of FX rates and banking indicators (Euribor, Libor, TMM) from Tunisian and Moroccan banks for interbank, risk, and financial analysis. - Built resilient extraction pipelines (Python, Selenium, Pandas) with error handling for data integrity; **daily ingestion from 15+ bank sources at 99.9% accuracy.** - *Stack:* Python, Selenium, Pandas, Jenkins CI.

Manufacturing Requests & Product Delivery Tracking: ERP-integrated mobile apps for manufacturing requests, work orders, and delivery tracking. - Shipped mobile apps for sales/delivery staff; extended the ERP with QR-coded product tickets and Crystal Reports; built a Flask microservice for QR data. - Redesigned mobile navigation/UX across iOS & Android; **+25% manufacturing efficiency** via real-time tracking for 50+ daily orders. - *Stack:* Flutter, Python (Flask), SQL, C# (.NET), Crystal Reports.

Freelance

Mar. 2021 - Feb. 2022 | Flutter Developer

E-Shop Mobile Application: a mobile e-commerce app (browse, cart, checkout) with sales-rep order/delivery tracking. - Integrated Firebase (real-time data, auth, push); **cut clicks-to-purchase by 30%** with a redesigned navigation flow; added QR scanning for product tracking and order verification. - *Stack:* Flutter, Firebase.

EDUCATION

Engineering Degree in Computer Engineering (2022-2025)
Private Polytechnic Institute of Advanced Sciences of the South (IPSAS), Sfax, Tunisia

Bachelor's Degree in Computer Science (2018-2021)
Higher Institute of Computer Science Mahdia (ISIMa), Mahdia, Tunisia

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, Ruby, Java, C#, Dart
- **Frontend:** React, Next.js, Vue.js, Redux Toolkit, Pinia, HTML5, CSS3
- **Backend:** Node.js (NestJS, Express.js), Ruby on Rails, Flask
- **Mobile:** React Native, Flutter, RNBackgroundGeolocation
- **Databases & Storage:** PostgreSQL, MySQL, MongoDB, Redis, Prisma ORM, Firebase, Supabase
- **Cloud & DevOps:** Docker, AWS (S3, CloudFront), GitLab CI/CD, Jenkins, Scalingo, Cloudflare, Vercel
- **APIs & Integration:** OpenAI API, Google Maps SDK/API, GitLab API, ClickUp API
- **Specialized / Geo:** QGIS, GeoPandas, vector tiles (MVT/PBF), OpenRouteService API, SonarQube, Crystal Reports, OpenCV

CERTIFICATIONS

- **EF SET:** English C1 Advanced (*Apr. 2022*); **Cisco:** Cybersecurity Pathway (*Mar. 2022*)
- **IBM:** Data Science with Python, Level 2; Data Analysis with Python (*Jan. 2022*); Web Development (*Apr. 2021*)

LANGUAGES

Arabic: Native | **English:** Advanced (C1) | **French:** Intermediate