Ali Abdelkader Aydi

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SUMMARY

Full-stack software engineer and data/AI specialist with proven ability to design, scale, and deploy intelligent platforms end-to-end. Experienced in cross-platform development (React Native, Next.js), cloud-native backends (Node.js, Docker, GCP), and modern data/AI pipelines (Hadoop, Spark, Kafka, RAG). Known for combining software craftsmanship + data engineering mastery to deliver high-impact, data-driven products.

EXPERIENCE

Full-Stack & Data Engineer

Sep 2024 – Apr 2025

Ahjez SaaS Platform | Remote (France)

- Built a cross-platform appointment & business discovery platform (React Native, Next.js) with multilingual support.
- Designed scalable backend (Node.js, MongoDB, Docker, Cloud Run) cutting hosting costs 99% via autoscaling + caching.
- Integrated real-time notifications (Socket.IO, Firebase), geospatial APIs (Google Maps, Mapbox), and Cloudinary media storage.
- Automated CI/CD (GitHub Actions), reducing deployment cycles 90%.
- Boosted SEO (SSR, structured data, dynamic sitemaps), driving higher client visibility.

Software Engineering Intern

Feb 2024 – Jul 2024

Pixel Pro Agency | Sfax, Tunisia

- Developed a fiscal management system (Laravel, Inertia.js/React, MySQL) with RBAC and audit logging.
- Automated document workflows + PDF generation; delivered scheduling, dashboards (Big Calendar, Chart.js).
- Streamlined committee management by developing a system that reduced data access and decision-making time from days to minutes.
- Deployed an unsupervised learning-based (IsolationForest) anomaly detection system to identify unusual patterns in fiscal transactions.

PROJECTS

Founder – Calculi.tn (Production Platform)

- Launched a smart GPA planner (Node.js, Express, MongoDB, EJS) with 80K+ active students, ranked #1 on Google for target keywords.
- Converted app to PWA for offline mode; deployed via Cloudflare CDN with DDoS protection.
- Implemented Python ELT pipeline using Airflow + dbt, uncovering user insights while ensuring GDPR compliance.
- SEO execution led to 250K+ organic impressions.

Hadoop Cluster Virtualization

- Deployed multi-node Hadoop cluster (2 masters, 3 slaves) with HDFS, YARN, MapReduce.
- Integrated Hive, Spark, Kafka; enabled high availability with Zookeeper.

AI-Powered Research Assistant

- Built RAG pipeline (Python/Flask + LangChain + Electron.js) for multi-document analysis + automated web scraping.
- Reduced research time for student researchers by 90%.

EDUCATION

MSc, Data Engineering & AI

2024 – 2026

FSEGS Tunisia

BSc, Business Computing (Top 10%)

2021 – 2024

FSEGS Tunisia

SKILLS

Languages:	Python, JavaScript/TypeScript, SQL, Java, C
Software Engineering:	React Native, Next.js, Node.js, Express, Electron, Laravel
Data & AI:	Hadoop, Spark, Kafka, Hive, scikit-learn, Pandas, RAG, dbt, ETL/ELT
Cloud & DevOps:	Docker, Google Cloud Run, GitHub Actions, Cloudflare CDN
Concepts:	Distributed Systems, CI/CD, SEO, REST APIs, Machine Learning

CERTIFICATIONS & AWARDS

- **Certifications:** Hadoop, SEO, Ethical Hacking, Full-Stack Web Development
- **Awards:** 2nd place (AI for Urban Waste Management), 3rd place (Eco-token Blockchain)