Mehdi Akiki – Software Engineer

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Profile

Full-stack engineer with a builder's mindset. I design simple **APIs**, keep the data path honest, and measure what matters. I use **Python**/**Go**/**TypeScript**, **React**/**Next.js**, and **Postgres**; add **LLM** automation where it saves time; and keep systems observable and easy to operate.

Skills

Languages & frameworks: Go, Python (Django, FastAPI), Rust, JavaScript/TypeScript, Node.js, Next.js, React
Cloud & infra: AWS (Lambda, EC2, API Gateway, DynamoDB), GCP basics, Kubernetes, Docker, Terraform, CI/CD
Data & testing: PostgreSQL, ClickHouse, MongoDB, Kafka, Redis; Pytest, Jest, Cypress, load testing
AI & tooling: LangChain, OpenAI, LLM integrations, observability (OpenTelemetry), WebSockets, rrweb

Experience

MonitorMe ⧉ – *Founding Software Engineer* – *New York, NY*   03/2025 – Present
MonitorMe is an open-source tool that helps in debugging microservices: trace the backend, replay the UI, and explain incidents fast.
- Architected trace agents and backend services (**Go**/**TS**/**Python**/**Java**) for an open-source observability product; optimized back-end latency by ~40% and processed 10k+ traces/hour while keeping resource costs predictable.
- Designed a **PostgreSQL** schema and tuned queries for high-cardinality telemetry; supported 100M+ daily datapoints and improved dashboard query response by ~65%.
- Built an AI-assisted microservice (**FastAPI**) to convert **JSON** traces into concise text summaries and suggested remediation steps, cutting triage time and improving on-call resolution.
- Delivered a **Gin (Go) RESTful API** powering a **Next.js** real-time dashboard with **rrweb** session replay; added auth, rate limiting, OpenAPI, and end-to-end tracing; reduced bug-repro time ~50%.
- Created an asynchronous ingestion pipeline with **Kafka** and idempotent consumers to remove bottlenecks; deployed on **Kubernetes** with auto-scaling (200+ concurrent users, 99.95% uptime) and robust monitoring and alerting.

Self-Employed / Consultant – *Full-Stack Engineer* – *Casablanca, Morocco*   02/2022 – 02/2025
- Attijariwafa Bank: Delivered a low-latency trading/credit platform (Python, React, microservices, Kafka) using multithreading and advanced caching to meet strict throughput and reliability SLAs.
- Cheikh Zaid Hospital: Led design and implementation of "MedTrack" (**Go**/**Node**/**Java**) and reworked legacy **ETL** into secure **AWS Lambdas** for anonymization and reporting—processing thousands of GB/month and reducing infrastructure costs by ~35%.
- Multiple startups/consultancies: Built **Python/React** platforms, automated data collections with **Scrapy/BeautifulSoup** feeding **ClickHouse**, and integrated **DynamoDB** for low-latency lookups; improved load handing and reduced page latency across projects.

Education

Master's Degree in Computer Engineering – GPA: 3.7   08/2007 – 01/2010
Concordia University – *Montreal, Canada*

Bachelor's Degree in Electrical Engineering   09/2000 – 09/2005
Polytechnique Montreal – *Montreal, Canada*