

MAEL SEDJRO BONOU

SENIOR BACKEND ENGINEER · AI INTEGRATION · Python · Node.js · Rust

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PROFESSIONAL PROFILE

Senior backend software engineer with 3+ years designing and shipping robust REST APIs, distributed services and microservice architectures. Expert in Python (Django, FastAPI) with solid Node.js and Rust, proven in high-traffic environments at MTN Benin where I have run business-critical systems end to end. I specialise in embedding AI and LLMs (agents, written and voice chatbots) into production backend pipelines, not as demos but as reliable features. I already work remotely with international, distributed teams across several time zones, delivering measurable quality independently and owning missions from requirements through to production. Rigorous, autonomous and results-driven.

TECHNICAL SKILLS

Backend (core) Python (Django, FastAPI) · Node.js (Express, NestJS) · Rust

AI & Integration OpenAI APIs · LLM integration in backend flows · AI agents · written & voice chatbots

APIs & Security REST API · GraphQL (notions) · OAuth2 · OpenID Connect · JWT · HTTPS/TLS · rate limiting

Databases PostgreSQL (advanced, PL/pgSQL) · MySQL · MongoDB · Redis · query optimisation

DevOps & CI/CD Docker · Kubernetes · Helm · GitHub Actions · GitLab CI · Jenkins · Nginx

Monitoring Grafana · Prometheus · Elastic Stack / Elastic APM · logging & alerting

Architecture Microservices · Design Patterns · Distributed systems · Application security

Ways of working Git · Agile/Scrum · remote & distributed teams · technical documentation · unit & integration testing

PROFESSIONAL EXPERIENCE

Senior Backend Engineer (Consultant) | International clients *Mar. 2025 – Present*

- ▶ Design and build large-scale backend services (Python / Node.js) for international clients, with a focus on performance and maintainability.
- ▶ Integrate AI into existing Python backend pipelines: LLMs, AI agents and written / voice chatbots.
- ▶ Develop and optimise REST APIs, interface contracts, versioning, OpenAPI/Swagger documentation.
- ▶ Improve CI/CD pipelines and software-quality practices (tests, code review, lint) within distributed Agile/Scrum teams.
- ▶ Cross-functional collaboration with remote teams across multiple time zones.

Backend Software Engineer | MTN Benin *Mar. 2024 – Present*

- ▶ Build and maintain REST APIs and backend services (Python, Node.js) for high-traffic digital products used by thousands of customers.
- ▶ Design and ship AI-integrated systems (OpenAI APIs, LLM applications) directly within backend flows.
- ▶ Diagnose and resolve complex incidents: SQL/PostgreSQL query performance, third-party integrations, application security and business logic.
- ▶ Production monitoring & observability: Grafana, Prometheus, Elastic APM, log management and SLA/availability constraints.
- ▶ Write technical documentation, feasibility analyses and microservices architecture proposals.
- ▶ Apply DevOps and CI/CD best practices (GitHub Actions, Docker, Kubernetes) and application security.

Backend Web Developer | Hôtel RAMAH *Oct. 2022 – Nov. 2023*

- ▶ Built a complete Python/Flask backend (API, bookings, payment integration) to grow online visibility and sales.
- ▶ Autonomous maintenance, enhancements and application support.

Other experience | CAGD Benin · IITECH *2022 – 2023*

- ▶ Network administrator assistant (CAGD): IT infrastructure monitoring, maintenance and user support.
- ▶ Backend developer intern (IITECH): PHP-to-Laravel legacy migration, API refactoring and MVC optimisation.

EDUCATION

Engineering Degree – Computer Networks & Internet *2025*

École Polytechnique d'Abomey-Calavi (EPAC)

Scientific Baccalaureate – Series C *2019*

Collège Catholique Ste Thérèse de l'Enfant Jésus

LANGUAGES & SOFT SKILLS

Languages French (excellent) · English (professional working proficiency, docs, emails, meetings)

Soft skills Autonomy · Rigour · Diagnostic mindset · Communication · Leadership · Tech watch · Priority management