

PARFAIT DETCHENOU

SOFTWARE ENGINEER

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<https://exkson.tech> | Cotonou, Benin

ABOUT ME

Software Engineer with over 4 years of experience building robust backend & mobile systems, DevOps pipelines, and scalable data solutions. Strong background in Python, Javascript, REST APIs, Flutter, and cloud deployment (Docker, GCP). Open-source contributor and mentor, passionate about software architecture and automation. I'm looking for new experiences to sharpen my skills and build game changing solutions.

COMPETENCIES

- Design software following architecture principles (clean architecture, event-driven, MVVM, ...) and design patterns
- Ability to build quality software in various languages and frameworks
- Strong proficiency in writing clean, production-ready code in : Typescript, Python, Flutter, Go (Nestjs, Django, FastAPI, React, Gin, ...)
- Solutions deployment and monitoring automation (CI/CD) with Docker, Github Actions, Gitlab CI, Google Cloud, AWS
- Product driven development coupled with agile methodology to build user-centered solutions
- Working in multidisciplinary teams with a focus on helping others reach their potential

EXPERIENCES

Software Engineer – Ceph (Google Summer of Code)

June 2025 – Present

- contributing to the development of Ceph – a storage system offering multiple interfaces: block, object, and file
- developing ceph-devstack – a podman container-based solution for deploying Ceph clusters locally
- improved ceph-devstack capabilities to support advanced test suites
- working within a globally distributed IBM team where I learn best practices

Software Engineer – Freelance

August 2024 – Present

- Built the REST API of 2krika, a marketplace that connects freelancers with clients, using NestJS (Typescript)
 - Designed and implemented the architecture of the solution with clean architecture and event sourcing pattern to ensure scalability, maintainability and auditability
 - Implemented separate databases for the core application (PostgreSQL) and the chat system (MongoDB) to improve performance
 - Ensured solution robustness with test coverage > 90%
 - Provided clean and exhaustive documentation to facilitate integration and maintainability
- Built Axion, an african alternative to Openart that supports video generation, image generation and AI generated content detection with FastAPI
 - Integrated various APIs (Google Veo3, Openai Sora 2,, Coqui-TTS, ...) to provide text-to-video, text-to-speech and detection features.
 - Implemented a simple but powerful MVC architecture to serve the app features
 - Built the CI/CD pipeline to automatically test and deploy the solution using Gitlab CI, Hetzner and Docker
- As Tech Lead, I'm mentoring a teams of 3 developers on the development (backend + mobile) of Health, a medical app to book appointment with doctors near you. Built using FastAPI and Flutter

Data & Management Assistant – Société Générale Bénin

January 2025 – Present

- reduced the generation time of a daily report from over 30 minutes to under 1 minute using in house technologies (Microsoft PowerShell, Visual Basic for Applications – VBA).
- automating the generation of analytical reports for top management to evaluate business growth and team performance.
- leading an audit and providing recommendations to enhance the data team's capabilities through a clearer data strategy and more suitable tools.

Fullstack Developer – Entretien Excellence & Cie, Canada

April 2022 – June 2025

- Built web crawlers to extract business information (phone, website, email address, sector, ...) from various places (Google Maps, Pages Jaunes, ...) using Selenium, BeautifulSoup and Scrapy
- Based on extracted information, I developed a mobile app in Flutter with web dashboard in React and an REST API in Django to present data to the sales team
- Written integrations with Hubspot and Openphone to automatically track calls between internal and external systems
- Automated web and mobile apps deployments using Gitlab CI, Docker & GCP allowing us to deploy new versions in less than 10s

Backend Developer – Foxtech, Benin

August 2023 – July 2024

- Built construction site management tools deployed across big french companies with thousands of users using Django and Django Rest Framework
- Built webcare for french telecom leader with features like orders, providers and activation requests management
- Improved software scalability by optimizing database requests with prefetch and related fetching techniques
- Ensured software robustness by improving test coverage
- Improved server response time with async tasks using Celery and message broker (Redis, RabbitMQ)

EDUCATION

Master in Big Data & AI

Epitech Benin

September 2024 – Present

Bachelor degree in Computer Science

Université Africaine de Technologie et de Management

September 2022 – June 2023

Education Bachelor Degree in Electrical Engineering

Ecole Normale Supérieure de l'Enseignement Technique – Lokossa

September 2019 – June 2022

SIDE QUESTS

- Open source contributor (django-restql, Ceph Project)
- Software development mentor
- Brazilian jiu-jitsu practitioner
- ...

CERTIFICATIONS

- Google Certified Data Engineer – in progress
- SAS Certified Associate – December 2023
- École d'Été sur l'Intelligence Artificielle – June 2022

LANGUAGES

- **English** : Advanced
- **French** : Native