MADOC MHLONGO

ASP.NET Core API Developer | C# / .NET Backend & Full-Stack Development

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Open to remote work and relocation

PROFESSIONAL PROFILE

I am a delivery-focused software developer targeting ASP.NET Core Web API and C#/.NET backend roles, with hands-on client experience delivering websites, PHP/Laravel booking workflows, React frontends, and practical IT solutions. My client work has strengthened my ability to gather requirements, implement features, test changes, troubleshoot issues, and maintain solutions after delivery.

My self-directed ASP.NET Core portfolio demonstrates deeper API engineering practice: Clean Architecture, CQRS/MediatR, Entity Framework Core, JWT authentication and role-aware authorization, Docker, SQL Server/PostgreSQL, automated testing, health checks, background processing, and monitoring-oriented design. My headline project, Aquri (PMS-System), is a multi-tenant hospitality property-management API with a React interface and a reported 489 passing automated tests.

I am confident in my ability to design RESTful API workflows, structure maintainable backend layers, write and debug C# code, work with relational databases, and communicate clearly with technical and non-technical stakeholders. I am seeking an ASP.NET Core API role where I can contribute strong backend fundamentals, testing discipline, and end-to-end delivery experience.

TECHNICAL SKILLS

Backend & API — Primary: C#, ASP.NET Core Web API, ASP.NET Core MVC, REST APIs, Entity Framework Core, ASP.NET Core Identity, JWT, CQRS/MediatR, Clean Architecture, SOLID Principles, Repository/Unit of Work Patterns, xUnit/Moq, Docker

Data & Delivery: SQL Server, PostgreSQL, MySQL, Git/GitHub, GitHub Actions/CI Workflows, API Integration, Debugging, Unit Testing, Mocking

Frontend & UI: React, JavaScript, TypeScript, HTML5, CSS3, Responsive Design, Bootstrap, jQuery, Ajax

Client Web Delivery: PHP, Laravel, REST APIs, booking/enquiry workflows, responsive interfaces, client support

IT Support: Laptop Diagnostics and Repair, Windows Troubleshooting, Software Configuration, Data-Recovery Support, Microsoft 365, Client Support

Additional Languages/Tools: Java, C++, Visual Basic, Visual Studio, Agile Practices, SDLC, Technical Documentation

PROFESSIONAL EXPERIENCE

Freelance Software Developer & IT Solutions Consultant | Dzonga Multi-Investment 2023 – Present

Phalaborwa, Limpopo / Remote

I work as an independent freelance software developer delivering websites, PHP/Laravel web solutions, React frontend work, and on-call technical support for clients and small businesses. I manage client work end-to-end: requirements, implementation, testing, revisions, delivery, and post-delivery maintenance.

Key work:

- **Developed a PHP-based safari booking system** for a tourism client in Mpumalanga, supporting practical booking and enquiry workflows alongside website delivery.
- **Delivered client-facing websites** for hospitality, tourism, and lifestyle businesses, including Cajori Hotel, CU Guesthouse, African Roar Safaris, and Viata Luxe, translating client needs into clear pages, usable navigation, and practical enquiry or booking journeys.
- **Built responsive frontends** with React and JavaScript, and implemented server-side functionality using PHP/Laravel for client projects.
- **Created a tender-presentation website** for a property landlord, strengthening their professional online presence and helping them present tender-related projects clearly.
- **Provided IT support** for clients: diagnosing and repairing laptops, troubleshooting hardware and software issues, configuring systems, and communicating clearly with non-technical clients throughout resolution.
- **Managed delivery end-to-end**, including requirements, implementation, testing, revisions, client communication, and post-delivery maintenance.

Independent ASP.NET Core API Portfolio Development | Self-Directed 2023 – Present

Remote

Alongside client delivery, I maintain an active self-directed ASP.NET Core API portfolio to deepen backend engineering practice. These projects are separate from paid client work and are used to demonstrate API design, architecture, testing, authentication, containerisation, and business-system modelling.

- Built and structured ASP.NET Core APIs using **Clean Architecture, CQRS/MediatR, Entity Framework Core, JWT authentication, role-aware authorization, Docker, and automated tests**.
- Practised production-oriented backend concerns including **health endpoints, structured logging, exception handling, background processing, real-time updates, and monitoring-oriented metrics**.
- Continued strengthening **REST API workflow design, relational data modelling, maintainable layering, and regression-focused testing**.

Software Development Mentee – Integration Documentation | Remote Mentorship Two-Month Engagement

Remote | Voluntary

- Worked under a mentor to document Axway CI flows, helping make integration sequences and hand-offs easier to understand and refer back to.
- Incorporated feedback, followed structured guidance, and developed practical exposure to integration documentation and disciplined technical communication.

Manager & Desktop Application Developer | Mhlongo Family Driving School, Phalaborwa Two-Year Role

Phalaborwa, Limpopo

- Managed day-to-day operations of our family-owned driving school, supporting learners through their preparation process.
- **Created a desktop practice application** to help learners become familiar with the computer-based processes used at the traffic department, improving their preparedness for digital learner testing.

ASP.NET CORE API PORTFOLIO — GITHUB DEMONSTRATIONS

The repositories below are self-directed portfolio projects used to demonstrate API engineering depth. They are separate from paid client work and are not represented as client deployments.

Aquri – Hospitality Property Management System — Primary API Portfolio Project

github.com/Shmurdoc/PMS-System

.NET 8 | C# | ASP.NET Core Web API | React | TypeScript | EF Core | PostgreSQL | CQRS/MediatR | JWT | Docker | xUnit

- Designed a **multi-tenant property-management API** and React interface covering properties, rooms, guests, bookings, invoicing, payments, service tickets, staff, inventory, RFID, and AI-related workflows.
- Structured the backend using **Domain, Application, Infrastructure, and API layers**; applied **role-aware authorization** and explicit business-state transitions.
- Used **EF Core with PostgreSQL**, JWT authentication, Docker, and automated testing. Repository README reports **489 passing automated tests**, demonstrating focus on regression checking and maintainability.

AI Task Coach – Productivity & Behaviour-Aware Task Management API

github.com/Shmurdoc/Back-End-AI-Task-Coach

.NET 8 | C# | ASP.NET Core | Clean Architecture | EF Core | SQL Server | CQRS/MediatR | SignalR | Redis | Docker | Prometheus

- Built a backend portfolio system for **task planning, goals, habits, productivity analytics, gamification, and behaviour-aware interventions**.
- Implemented **architectural separation, background-processing concepts, real-time updates via SignalR, health endpoints, and monitoring-oriented metrics** using Prometheus.

SELECTED CLIENT WEBSITE WORK

Hospitality, Tourism & Lifestyle Websites Delivered:

CLIENT	WEBSITE
Cajori Hotel	cajori.co.za
CU Guesthouse	cuguesthouse.co.za
African Roar Safaris	africanroar.co.za
Viata Luxe	viataluxe.com

Work included website development and improvements for hospitality/tourism clients. A PHP-based safari booking system is also part of the client-delivery experience described above.

EDUCATION

Bachelor of Science in Information Technology

Richfield Graduate Institute of Technology, Pretoria | 2023 | NQF Level 7

- Software development focus
- Completed in record time with no failed modules
- Earned distinctions during IT studies

National Diploma in Information Technology

Richfield Graduate Institute of Technology, Pretoria | 2022 | NQF Level 6

- Coursework included programming, databases, and web development

National Senior Certificate (Matric)

Nyukani Education Centre, Giyani | 2018

CERTIFICATIONS & DIGITAL BADGES

- **ASP.NET Core Fundamentals** – Alison (2024)
- **Credly Digital Badges** (2025): Cloud Computing, Machine Learning, Artificial Intelligence, Cloud Security, Cloud Storage, Reinforcement Learning, and Web Applications

ADDITIONAL INFORMATION

Languages: Xitsonga (Native), English (Fluent), Sepedi (Fluent)

Mobility: C1 Driver's Licence; open to remote work and relocation

References: Available upon request