

Thoriso Mokhethi

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SUMMARY

Backend-focused Software Developer with 2+ years of professional experience across C#, Python, and cloud infrastructure. Currently building production systems at IoT.nxt — including an automated telemetry reporting pipeline and a sensor data ingestion microservice. Independently shipped a live e-commerce platform (Thorstore Art) with payment integration, JWT authentication, and full cloud deployment. Strong across the full backend stack with hands-on exposure to Azure, Huawei Cloud, Terraform, Docker, and Kubernetes.

TECHNICAL SKILLS

Languages: C#, Python, Java, JavaScript, TypeScript, PHP
Backend: ASP.NET, Django, Laravel, REST APIs, Microservices
Databases: SQL Server, MySQL, PostgreSQL, Azure SQL
Cloud & DevOps: Azure, Terraform, Docker, Kubernetes, CI/CD
Frontend: Angular, React, Next.js
Tools: Git, GitHub, Agile, Linux, SDLC

EXPERIENCE

Software Engineering Intern — IOT.nxt (Dec 2025 – Present)

- Built an end-to-end automated reporting pipeline in Python that extracts generator telemetry from PostgreSQL using CTEs for daily delta calculations.
- Transformed the data with pandas and generated stakeholder-specific Excel reports with charts and summaries, and automated email distribution through Outlook using win32com.client.
- Designed the reporting system to serve three stakeholder tiers (local, regional, national). Each receiving a tailored Excel report reflecting their scope of operational data, replacing a previously manual extraction process
- Built a sensor telemetry ingestion microservice in ASP.NET Core (.NET 10) — a bounded Channel<T> pipeline that validates, normalises, and persists raw JSON payloads to PostgreSQL via a background IHostedService processor
- Collaborated with cross-functional teams to refine system requirements and improve backend performance

Junior Cloud Engineer — Mpilo Technologies (Sep 2024 – May 2025)

- Integrated Peach Payments into a Laravel + MySQL backend for the SpazaEats platform, collaborating directly with the Peach Payments technical team to test and verify payment endpoints end-to-end

- Diagnosed and resolved 403 errors and endpoint validation failures by tracing incorrect data mapping in prebuilt modules and implementing proper authentication and request validation
- Automated deployments by configuring GitHub webhooks to sync code updates directly to an Apache server via cPanel, eliminating manual upload processes and improving release reliability
- Deployed a WordPress application on Azure App Services using Azure Resource Manager (ARM) templates, gaining hands-on experience with Infrastructure-as-Code on Microsoft Azure
- Maintained REST API stability and performance to support a Flutter-based mobile frontend, ensuring seamless data fetching across client and server
- Assisted with backend logic, database configuration, and cloud migration planning for potential scale-out to Huawei Cloud

Cloud Intern — Mpilo Technologies (Sep 2023 – Aug 2024)

- Provisioned Huawei Cloud infrastructure using Terraform scripts, automating resource creation and reducing manual setup time
- Containerised a web application using Docker and wrote Kubernetes configuration scripts to enable container orchestration on Huawei Cloud
- Integrated the application with Huawei Cloud Pipelines for automated CI/CD deployments, collaborating with teammates on pipeline configuration
- Worked directly with Huawei Cloud engineers to troubleshoot configurations and ensure deployment best practices were followed throughout the project

PROJECTS

Thorstore Art — Full-Stack E-Commerce Platform

ASP.NET Core 8 | Next.js | TypeScript | PostgreSQL | Docker

Github: github.com/thorstore-ong/ArtShopApi · github.com/thorstore-ong/thorstore-art-website ·

Live Website: [Thorstore Art](https://thorstore.art)

- Built and deployed a production e-commerce platform end-to-end: RESTful ASP.NET Core 8 Web API backend (Railway) and a Next.js 16 + TypeScript frontend (Vercel) with a custom domain
- Implemented JWT authentication with BCrypt password hashing, Yoco payment gateway integration with webhook handling, and Resend for transactional email notifications
- Designed the data model using EF Core with manual DTO mapping, including stock deduction on order placement and snapshotted unit prices on order items
- Configured CORS, Dockerised the API for Railway deployment, and resolved multiple production deployment issues including Zustand hydration timing and Suspense boundary errors on Vercel

JAPTECH Fleet Management System

C# | .NET Framework 4.7.2 | Windows Forms | SQL Server

Github: github.com/thorstore-ong/Fleet-management-system

- Designed and implemented the core backend C# domain classes (Bookings, Delegations, Emergencies, TripBookings, Recordings) as part of a 5-person university team
 - Configured XML resource files across all Windows Forms components to support the UI layer
 - Collaborated with teammates to deliver a role-based desktop system covering vehicle management, trip planning, job sheets, timesheets, and emergency logging
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Time Management Web Application

ASP.NET Web Forms | C# | SQL Server | Bootstrap

Github: github.com/thorstore-ong/Time-Management-Web-Application

- Built a full-stack web application with user registration, authentication, and per-module study time tracking across five ASP.NET Web Forms pages
 - Implemented the self-study hour calculation formula ($\text{credits} \times 10 \div \text{semester weeks} - \text{class hours}$) in a dedicated `TimeManagementCalculation` class library, separating business logic from the UI layer
 - Connected the application to a pre-seeded SQL Server database and integrated Bootstrap 3 for a responsive, mobile-aware interface
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EDUCATION

Diploma in IT – Software Development — The IIE Varsity College (2020 – 2022)

Overall Average: 79%

CERTIFICATIONS

- AZ-900 – Microsoft Azure Fundamentals
- IACD – Introduction to Programming