

MADELINE KALLIS

Senior Software Developer | Full-Stack Engineer | ERP Specialist

github.com/MadelineKallis

PROFESSIONAL SUMMARY

Results-driven software developer with 8 years of experience delivering enterprise-grade solutions. Sole architect and developer of a comprehensive logistics ERP system encompassing fleet management, payroll, weighbridge integration, and real-time analytics. Proven ability to bridge legacy systems with modern frameworks, combining deep C# backend expertise with React/Next.js frontend development. MCSD certified professional with end-to-end ownership experience spanning system architecture, hardware integration, and production deployment.

TECHNICAL SKILLS

Backend	C#, ASP.NET, PHP, RESTful APIs, SQL Server, Entity Framework
Frontend	React, Next.js, Tailwind CSS, Bootstrap, jQuery, AJAX, HTML5/CSS3
Mobile	Android (Java)
Integration	Hardware interfaces (weighbridges, access control), External APIs, Border/port systems
DevOps	Git version control, Server administration, Production deployment
Architecture	System design, Database modeling, Microservices, Legacy modernization

PROFESSIONAL EXPERIENCE

Software Developer | [Newton Technologies](#)

October 2021 – Present | Mbombela, South Africa

Sole developer of a full-scale logistics ERP system covering the complete business operation. Responsible for entire software lifecycle from architecture through deployment and support.

Key Achievements:

Weighbridge Integration – Hardware/software interface for weight capture	Fleet Management – Asset tracking and vehicle monitoring
Border/Port Integration – External API compliance systems	Driver Management – Scheduling, shifts, and HR workflows
TFN Diesel Integration – Automated fuel management API	Route Costing – Business logic and cost calculations
Payroll System – Full legal compliance implementation	Access Control – Workshop security hardware integration
Revenue Reporting – Progressive data aggregation and analytics	Performance Dashboards – Real-time driver KPI tracking

Technical Leadership:

- Led legacy-to-modern migration: PHP/jQuery → Next.js/React/Tailwind architecture
- Performed multiple concurrent roles: Backend, Frontend, Architect, DevOps, and Support
- Integrated diverse hardware systems including industrial weighbridges and security access controls

Software Developer | [BBSoftware Development](#)

November 2018 – October 2021

- Built web applications using ASP.NET and Bootstrap, handling client website orders alongside core product development

- Developed Android application for truck stop operations managing access control and transporter accounts
- Worked on flagship fleet management system for fuel transportation, monitoring fuel carrier levels and fuel station storage tanks
- Tracked pump-level dispensing data and implemented volume reconciliation across the full supply chain

EDUCATION & CERTIFICATION

Microsoft Certified Solutions Developer (MCSD)

CTU Training Solutions

CORE COMPETENCIES

✓ Enterprise Architecture

✓ Legacy Modernization

✓ Agile Methodologies

✓ API Development

✓ Full-Stack Development

✓ Technical Leadership

✓ Hardware Integration

✓ Database Design

✓ Production Support