

TADIWANASHE BASIL MPUPUNI

IT Software Developer

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PROFESSIONAL SUMMARY

Full-stack Software Developer with hands-on experience designing, developing, testing, and maintaining production software systems, databases, and web applications. Proficient in Python, C#, and JavaScript across the full Software Development Life Cycle (SDLC), from requirements analysis and system design through deployment, documentation, and user support. Experienced with PostgreSQL and SQL Server database development, RESTful API design, and securing applications with authentication and role-based access control. Microsoft Azure certified (DP-900), with strong analytical and problem-solving skills developed through a Data Science and Informatics honours degree.

CORE COMPETENCIES

- Software design, development, testing & maintenance
- Web application & database development
- RESTful API design & systems integration
- Requirements analysis & software solution design
- Troubleshooting, debugging & system upgrades
- Data security, authentication & system integrity
- Technical documentation & user training
- Process automation & digital transformation

WORK EXPERIENCE

Full Stack Developer — TTCS GLOBAL

2024 – Present | Harare, Zimbabwe

- Design, develop, test, and maintain web-based software applications and internal systems used for operational reporting and business management across departments.
- Develop and manage company databases on PostgreSQL and SQL Server — writing and optimizing queries, designing schemas, and building reliable data pipelines for production systems.
- Analyze user requirements from internal stakeholders and translate them into scalable software solutions, improving reporting tools and business workflows.
- Troubleshoot, debug, and upgrade existing software systems, including resolving UI defects and optimizing bulk database update endpoints for performance.
- Design and secure RESTful APIs with JWT authentication and role-based access control, ensuring data security and system integrity across user roles.
- Build responsive front-end interfaces using JavaScript frameworks (Vue.js 3) and ASP.NET Core MVC/Razor, improving data visualization and user experience.
- Prepare technical documentation covering system logic, data sources, and processes to support maintainability, onboarding, and user training.
- Support digital transformation initiatives by automating manual reporting processes into self-service dashboards and APIs.

Software Developer Intern — TTCS GLOBAL

2023 – 2024 | Harare, Zimbabwe

- Supported development of data-driven application features by querying and analyzing relational databases using SQL.
- Assisted with data inspection, debugging, and validation to ensure data accuracy and consistency across systems.
- Contributed to front-end feature development with JavaScript, gaining hands-on production experience within the SDLC.
- Participated in Agile ceremonies, Git-based version control workflows, and cross-functional team collaboration.

KEY PROJECTS

- **CIPZ Company Registration Platform:** A live, national-scale production system serving company registration processes across Zimbabwe. Designing and developing multiple business processes and user interfaces using ASP.NET Core (MVC/Razor) and SQL-Server, and contributed to the deployment pipeline.
- **E-Commerce Web Application:** Designing and building a full e-commerce platform with Vue.js 3, FastAPI (Python), and PostgreSQL — featuring JWT authentication, payment gateway integration, dual-currency support (USD/ZiG), and an administrative dashboard.
- **M&E Dashboard System:** Delivered a complete monitoring & evaluation dashboard for a Zimbabwean organisation across a structured 12-phase SDLC — covering authentication, role-based access control, data visualization, and reporting modules using FastAPI, PostgreSQL, and Vue.js 3.
- **Personal Analytics Platform:** Built an end-to-end data project (ingestion → modelling → deployed API + dashboard) demonstrating applied analytics; published at tadiwanashempupuni.com.

EDUCATION & CERTIFICATIONS

Bachelor's Degree (Honours) in Data Science and Informatics

Midlands State University | 2021 – 2025

Microsoft Azure Data Fundamentals (DP-900)

Microsoft | 2026 — cloud computing certification

TECHNICAL SKILLS

Languages: Python, C#, JavaScript, SQL

Frameworks: FastAPI, ASP.NET Core (MVC/Razor), Vue.js 3

Databases: PostgreSQL, SQL Server

Cloud: Microsoft Azure (DP-900)

Tools & Practices: Agile/Scrum, SDLC, RESTful APIs, Git

Security: JWT authentication, role-based access control, server hardening