Themba Maluleke

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Summary

Driven Software Developer with 8+ years of experience designing, developing, and deploying enterprise-level applications across the fast-paced Banking, FinTech, and i-Gaming sectors. My foundation in Computer Systems Engineering from Tshwane University of Technology instilled in me a passion for leveraging technology to solve complex challenges. I'm an engineer at heart, with deep expertise in C#, .NET, and cloud technologies (Azure, Google Cloud), and a proven track record of delivering high-quality, innovative solutions that optimize system performance. I thrive in collaborative environments, where I excel at driving projects forward and mentoring fellow developers. Throughout my career, I've been drawn to solving complex problems, such as implementing Apple Pay decryption to enhance online payment processing and integrating with various payment providers to streamline critical financial transactions, with a strong focus on the Banking and Payments domain, including specific experience with banking deposit systems gained at Derivco.

Links:

LinkedIn: https://www.linkedin.com/in/themba-maluleke-62a9b596/

GitHub: https://github.com/ThembaFumani

Experience

JSE | Johannesburg, Gauteng Senior Software Developer - Independent Contractor | 07/2024 - 03/2025

As a Senior Software Developer at JSE, I was responsible for engineering and maintaining the Market Surveillance system called SATURN, which generated critical reports for market analysts. My primary focus within this role was the SATURN re-architecture project, where I developed and delivered key components:

- Played a pivotal role in the re-architecture, transitioning SATURN from a desktop application to a web-based platform.
- Built the high-throughput WebAPI and frontend, enabling market analysts to perform concurrent investigations.
- Eliminated prior scheduling needs for reports, allowing real-time, concurrent access.
- Reduced report loading times for 300,000-record reports from minutes to 3-6 seconds.
- Optimized stored procedures through batching and ensured efficient querying directly from Azure SQL to achieve these performance gains.

Additional responsibilities included:

- Collaborated with team members and stakeholders to enhance overall data processing and system performance.
- Implemented new features and enhancements to improve system functionality using C#, MVC, SQL Server, Linq, and SOLID Principles.
- Released functionality to Production Servers via Azure DevOps build and release pipelines.
- Conducted code reviews and provided feedback to team members on Azure DevOps.
- Resolved technical issues and bugs in a timely manner.
- Participated in planning and prioritizing project tasks.

Technologies Used:

C#
ASP.NET 4.7.2 MVC
Linq
SQL Server
Denodo
Microsoft Azure Devops
IIS
Azure SQL

Nolo | Pretoria, Gauteng Freelance Software Engineer | 10/2023 - 06/2024

For the Flexi-Taxi project, I led the creation and deployment of a complete e-hailing app backend from the ground up, using the .NET framework and Google Cloud Platform. I was actively involved in deciding on the technology, architecture, and infrastructure setup to ensure the system could grow, stay secure, and perform well.

Key Responsibilities and Achievements:

- Designed and built the backend architecture using a microservices approach for modularity and scalability. Each service, written in C#, connected to the front-end app through WebAPI.
- Set up and configured MongoDB for efficient and secure data storage and retrieval, including user authentication.
- Managed cloud deployment using Docker containers for consistent environments and Kubernetes for smooth orchestration of microservices.
- Automated testing and deployment processes with Google Cloud Build (CI/CD) pipelines.
- Integrated SignalR to enable real-time communication features within the e-hailing platform, improving user experience and responsiveness.
- Implemented Redis for fast data caching and RabbitMQ for reliable communication between different parts of the app.

Technologies and Tools Used: .NET Framework Google Cloud Platform (GCP): Cloud Run, Google Kubernetes Engine (GKE) Docker Google Cloud Build (CI/CD) Github Actions MongoDB SignalR Redis RabbitMQ Microservice Architecture

Derivco | Pretoria, Gauteng Software Developer L1 | 06/2021 - 09/2023

Derivco | Pretoria, Gauteng Software Developer L1 | 06/2021 - 09/2023

At Derivco, as a pivotal member of the Banking Integration team, I worked on the Deposit Engine System. This system, Sirius, helps players worldwide make smooth online financial transactions within the i-gaming industry, ensuring a user-friendly experience. Sirius is a banking system framework that is responsible for processing deposit payments with various payment providers and payment methods (cards and wallets) and is designed to maintain state for the lifecycle of a payment transaction. My role involved:

- Maintained and enhanced features for the banking system framework, Sirius, handling money-in payments from various Payment Service Providers and payment methods (cards and wallets).
- Designed and implemented backend services using .NET Core, a microservice architecture, orchestrated by Service Fabric and later Kubernetes.
- Applied the Actor Model Pattern for managing concurrent operations and isolated state within specific services. While
 this approach provided strong isolation, it introduced complexities in maintaining state consistency across distributed
 actors and increased debugging challenges in a highly distributed environment.
- Successfully implemented cryptology using various cyphers(ECC, RSA, Blowfish), which provided generic utility for integrating with various payment methods, most notably being ECC Decryption for the Apple Pay integration.
- Worked closely with Business Analysts to translate complex business requirements into clear, efficient technical solutions.
- Wrote code functionality that enables payment integration developers to integrate various payment providers with Sirius using definition file pattern, orchestration saga pattern, pipeline/workflow pattern, and the iMethod Design Pattern.
- Implemented a proactive system support solution to help system engineers resolve production issues before they escalated.
- Participated in sprint planning and backlog grooming sessions, ensuring a collaborative approach to project timelines and priorities.
- Wrote unit and T1 testing efforts, ensuring the reliability and stability of developed solutions.
- Conducted thorough code reviews and managed pull requests, fostering a collaborative coding environment.
- Coordinated seamless deployments, ensuring a smooth transition of software from development to production.
- Provided production support and monitoring, promptly addressing issues to maintain optimal system performance.
- Implemented an agile approach that improved initiative delivery and increased client satisfaction.

Mentored teammates, sharing knowledge to help their growth and development.

Technologies used: C# ASP.NET Core 3.1/6.0 MSSQL WebAPI /Rest Service Fabric IIS SOA IMethod Design Pattern Actor Model Pattern SOLID Principles Dependency Injections Azure DevOps YAML Powershell RabbitMQ Microservice Architecture Kubernetes

Capitec Bank | Cape Town, Western Cape

Intermediate Software Developer | 08/2019 - 05/2021

Capitec Bank stands tall as one of South Africa's largest retail banks, boasting a substantial customer base of 120,000 individuals opening new accounts each month. The remarkable success of Capitec can be attributed to its unwavering commitment to customer satisfaction. This commitment led me to join the dynamic Credit and Revenue team, where I played a pivotal role in building and maintaining Capitec's credit and loan products.

Key Responsibilities:

- Provided valuable insights on project-related technical matters, contributing to development approaches and addressing ad hoc technical challenges.
- Took full ownership of development tasks, providing the development of features in C# for server-side layer, SQL Server 2012 for all the DB related logic.
- Collaborated with functional teams to establish and clarify project requirements.
- Actively participated in Backlog refinement and Sprint Planning sessions, contributing to project timelines and priorities. -

Demonstrated strong teamwork capabilities and applied a working knowledge of Agile Development methodologies. -

Offered support to various stakeholders utilizing Credit and Loan services.

- Developed new features across all systems, enhancing the overall functionality.
- Created automation build and release templates, streamlining changes deployment across diverse environments for pre production testing on Azure Devops.
- Built, maintained, and monitored third-party tools and platforms for secure client data transfer, adhering strictly to Capitec Bank's standards and policies.

Key Achievements:

- Implemented a monitoring tool, significantly reducing the time to identify and address issues within systems.
- Led the development phase of implementing versioning capability for an in-house Desktop-based application utilized by Capitec's Decision Science team, contributing to enhanced functionality and efficiency.

I performed the development work in C#, running on WPF framework, which communicates with WCF services and wrote stored procs to communicate with the WCF services for data querying and command.

Khanyisa Real Systems | Cape Town, WC

Software Developer | 01/2017 - 07/2019

Khanyisa Real System stands out as a premier Software Development House in South Africa, specializing in an Agile Software Development approach to create top-notch software solutions for diverse companies.

Responsibilities:

- Engaged actively in all phases of the Agile Methodology, including Sprint planning, backlog grooming, and 2-week sprints, ensuring a collaborative and efficient development process.
- Fostered close collaboration with clients to gather requirements and provided ongoing feedback on project progress, aligning deliverables with client expectations.
- Worked in tandem with UI/UX designers to craft visually appealing and responsive web applications that meet high-quality standards.

- Regularly participated in weekly show and tell sessions, fostering transparent communication and collaboration within the team.

Key Achievements:

- Played a pivotal role in the completion and success of projects for Ashburton Investments and Virgin Active Red. These achievements garnered international recognition, earning nominations for the best CMS website. Contributed to the projects' overall excellence and positive impact on user experiences.

Skills

C#, ASP.NET, MongoDB, SQL, Web API, REST API, WCF (Windows Communication Foundation), XML, JSON, TDD, Unit Testing, Service-Oriented Architecture, Design Patterns, RabbitMQ, System Design, Azure Devops, Google Cloud Platform, YAML, Docker, Service Orchestration, Service Fabric, Payment Processing, CI/CD, Technical Support, Technical Lead, Mentoring, Documentation, Agile, Scrum, Google Cloud Build, Google Cloud Run, Google Cloud Kubernetes Engine

Education

Tshwane University of Technology National Diploma: Computer Systems Engineering In progress