

Anthony Kubeka

Randburg Gauteng, South Africa

(+27) 076 448 4237 - anthonykubeka.com - anthonykubeka@gmail.com - [LinkedIn](#)

EDUCATION

University of the Witwatersrand

Bachelor of Science - Computer Science

Randburg, Gauteng, South Africa

Graduation Date: December 2020

TECHNICAL SKILLS

Programming Languages & Skills: Event-driven architectures, microservices, modular monoliths, MediatR pattern, CQRS, .NET Core, C#, Angular, Azure, Typescript, Microsoft SQL Server, .NET Framework, Azure Cosmos DB, Azure Functions, Azure DevOps, Agile Methodologies, Python, FastAPI, NSSM

Certifications: Microsoft AZ-900 (Azure Fundamentals).

WORK EXPERIENCE

Senior Software Developer

Trade Shield, Gauteng, South Africa

September 2024 - Present

- Built a key observability feature, the debtor change orchestration system, to track all events related to business process events (like when a debtor is liquidated), audit them, and raise alerts. As a cross-team concern, this reduced queries from clients as to where expected results like risk scores were in the system by 64% (average reduction in the last PI estimated by looking at reduction in FreshDesk support tickets for DataScience and Customer Delivery teams related to risk scores and trade credit limit recommendations).
- Worked closely with CTO in developing microservice to serve as new orchestration layer for event-driven services in the business, similar to a tool such as MassTransit. Utilised three phase commits, event streams with slowly changing dimensions and the outbox pattern.
- Served on senior developer interview panel over the last quarter, evaluating senior candidates for system design capability and engineering maturity.
- Made existing Python services responsible for calculating features and risk scores event-driven to improve observability of key business processes. This meant taking what were Python services running on schedules and reading SQL tables as queues to perform work, exposing FastAPI endpoints for them, implementing an Outbox to serve as the queue mechanism and aligning their Python virtual environments, as well as setting up CI/CD pipelines so these can be consistently deployed rather than manually updated on production servers. What was a black box for the business left by the old data science team, is now observable via Dashboards that can read the state of these services and their work via API endpoints. This meant picking up Python quickly and mostly making good calls myself.
- Implemented CI/CD (Azure Classic and Multi-stage build and release pipelines) for custom enterprise orchestration microservice to serve as new orchestration layer for event-driven services in the business.
- Built event-driven architecture systems along with web hooks to support Trade Shield's ability to handle high volumes (millions) of trade credit limit recommendations amounting to nearly 7% of South Africa's GDP in the last year.
- Introduced a team standards charter, Azure DevOps pull request templates, and static code analysis with Roslyn, enhancing code consistency and maintainability.
- Led the technical split from a partner company, creating independent Azure infrastructure for Trade Shield, including a new Azure Tenant, CI/CD pipelines, virtual machines, and decoupled services using the Strangler Fig and facade patterns.
- Mentored junior and intermediate developers, focusing on foundational industry practices, from basics like git hygiene, computational kindness and professionalism, to design patterns and actual uses cases and the skill of making good calls to foster growth and long-term development skills.

Intermediate Software Engineer

Entelect, Client: Ninety One Investments, Gauteng, South Africa

January 2023 - August 2024

- Worked as a Full-stack Engineer (Angular front-end and .NET Core back-end) for Ninety One's Investment Platform.
- Worked on micro-services and APIs handling regulatory compliance, investment calculations and transactions using Microsoft Service Fabric.
- Upgraded .NET 6 APIs and Azure FunctionApp to .NET 8, which involved migrating FunctionApp from in-process model to isolated worker model.

- Built an Azure DevOps pipeline to compare key vault keys and secrets between testing and production environments, improving the quality of production releases.
- Drove customer growth by implementing RESTful API endpoints and Angular components with RxJS for event handling to decrease rejection rates of investment transactions on Ninety One's investment platform.
- Improved Ninety One's business efficiency by implementing a full-stack feature to allow manual investment instructions to be submitted via the web, using Azure Service Bus and Function App, reducing the need for manual quality control.
- Investigated and resolved production issues with critical investment instructions in Ninety One's Azure CosmosDB database and Function Apps under time pressure.
- Mitigated business risk by implementing critical bug fixes for the instruction investment process as soon as these were discovered.
- Improved code coverage for the instruction investment process by writing unit tests for legacy C# code using XUnit and Moq.
- Mentored junior engineers on the team in terms of SOLID principles and best practices.

Software Engineer

Entelect, Client: EasyEquities, Gauteng, South Africa

January 2021 - December 2022

- Enabled the launch of EasyEquities' pension fund platform, RISE, by completing necessary functionality as full-stack features.
- Added Reactive Angular Forms to allow for capturing of essential data for adding pension funds and companies to the system.
- Implemented an automatic process using SignalR, NServiceBus and SQL Server stored procedures to bulk load thousands of members onto the system.
- Wrote several SQL Server stored procedures to transform SARS data per integration allowing automatic submission of tax forms for claim withdrawals.
- Used Azure App Insights to investigate and resolve production issues with the claims withdrawal process under time pressure.
- Improved code coverage for the claims withdrawal process by writing unit tests for C# code using NUnit and Moq.

PERSONAL PROJECTS

Self-Hosted Homelab Platform (Ongoing)

Personal Infrastructure Project

- Designed and deployed a multi-stack Docker-based homelab with clear separation of concerns (core, media, home, observability).
- Implemented GitOps workflows using self-hosted CI/CD (Forgejo runners), enabling push-to-deploy without SSH access.
- Built reverse proxy layer with Caddy, managing TLS and subdomain routing across all services.
- Integrated observability stack using Prometheus and Grafana to monitor system health, resource usage, and container metrics.
- Migrated Home Assistant configuration to version-controlled YAML and deployed via automated pipelines.
- Designed system resilience by isolating critical and non-critical workloads to reduce impact of partial failures.
- Automated operational workflows (backups, cleanup, service management) using scripts and scheduled jobs.