William Nsambu
Software & Data Engineer
Fort Worth, TX 76179 • williamnsambu@gmail.com • 615-403-8183

Professional Summary

Results-driven **Software & Data Engineer** with expertise in .NET, cloud-native applications, and scalable data solutions. Skilled at designing and automating ETL/ELT pipelines, optimizing performance, and delivering reliable platforms that support 50+ stakeholders. Proven track record in turning business requirements into production-ready solutions that accelerate insights, cut manual work, and drive measurable impact.

Skills

Technical Leadership & Agile
- Team Leadership & Mentoring
- Cross-functional Collaboration
- Agile/Scrum (Sprint Planning, Retrospectives)

Cloud & Serverless Architectures
- Azure (Functions, Logic Apps, Data Factory, Synapse, Databricks)
- AWS (Lambda, S3, RDS)
- Event-driven & three-tier designs

Data Engineering & Analytics
- ETL/ELT Pipelines & Orchestration (SSIS, ADF, Fabric, Synapse Analytics, Databricks, dbt)
- Data Modeling: Star Schemas, Data Lakes (Medalion Architecture)/Warehouses

BI & Reporting: Power BI (DAX), SSRS, Tableau (basic)

Backend Development & APIs
- .NET (C#/, ASP.NET Web API, VB.NET)
- RESTful API Design & Security (OAuth2, JWT)
- SQL & NoSQL: SQL Server, PostgreSQL, Cosmos DB, MongoDB

Frontend Development
- React.js

Scripting & Automation
- Python
- Shell scripting & CI/CD (Azure DevOps, YAML pipelines, ARM templates)

Work History

Data Engineer I | Wilson Elser, Fort Worth, TX

July 2024 – Current

- **Collaborate** with cross-functional teams to gather data requirements and deliver end-to-end, production-ready data solutions on **Azure**.
- **Engage** directly with stakeholders to translate business needs into robust software architectures and actionable strategies.

- **Built and automated** ETL/ELT pipelines using Azure Data Factory, Databricks, Synapse, and Fabric—eliminating hours/month of manual data processing and enabling weekly dashboards for 10+ stakeholders.
- **Created** modular models, built lineage, and defined tests to enforce data quality using dbt (Data Build Tool).
- **Tuned** Spark notebooks to accelerate key analytics queries by **40%**, reducing report generation time.
- **Implemented proactive monitoring** with Azure Application Insights and Log Analytics workspaces, setting up 15+ alerts on pipeline failures and data anomalies, cutting incident response time.

Azure Developer (.NET) | Brooksource, Nashville, TN

July 2020 – July 2024

- **Architected & deployed** event-driven Azure Functions (.NET 6, All triggers) processing 1 M+ messages/day with **99.99% SLA**, cutting average end-to-end latency and supporting 24/7 operations.
- **Built & versioned** secure ASP.NET Core Web APIs (OAuth2/JWT) integrated with Azure SQL & Cosmos DB, handling 200 K+ monthly calls and enabling frontend services.
- **Led** menu integration between KFC and Uber Eats and participated in other aggregator integrations such as DoorDash, Grubhub, and YUM, facilitating sales on these platforms.
- **Led** ETL development using Azure Data Factory, facilitating data migration for the new System Byte Connect.
- **Championed observability** with Application Insights (custom telemetry, live metrics, proactive alerts), slashing mean-time-to-detect for production issues.
- **Optimized** APIM and Front door for better distribution of API requests for all regions.
- **Refactored** a 100 K-line legacy C# codebase into modular, testable services—boosting unit-test coverage from 45% to **85%** and eliminating recurring defects.
- **Designed & led** a centralized monitoring dashboard for the data management team, driving **10% faster** data-driven decision cycles across menu operations that were later converted into Power BI dashboards.
- **Facilitated onboarding** for three new hires and mentored an intern.
- **Collaborated** in cross-functional Agile teams—participating in sprint planning, backlog refinement, and retrospectives.

Software Developer II (.NET & Microsoft Azure) | NDC, Inc., Nashville, TN

June 2018 – May 2020

- **Engineered & scaled** DotNetNuke (DNN)–based portals serving 50,000+ monthly users, refactoring C# modules and SQL Server queries to reduce page-load times and support concurrent traffic.
- **Designed & deployed** Azure Logic Apps workflows to integrate finance, CRM, and inventory systems.
- **Participated in the migration** of on-premises SQL Server and legacy DNN instances into Azure (App Service, SQL DB, Cosmos DB).
- **Collaborated** in cross-functional Agile teams—participating in sprint planning, backlog refinement, and retrospectives.

Software Developer I | National General Insurance, Nashville, TN

January 2016 – May 2018

- **Modernized** a legacy .NET/VB monolithic application into modular C# services.
- **Optimized** 20+ critical SQL Server stored procedures and queries, reducing nightly batch-job runtimes, which ensured next-day underwriting data was available earlier.
- **Designed & delivered** over 100 Crystal Reports for claims, policy issuance, and actuarial analytics.
- **Instituted** unit-testing standards using MSTest.
- **Collaborated** in cross-functional Agile teams—participating in sprint planning, backlog refinement, and retrospectives.
- **Collaborated** in cross-functional Agile teams—participating in sprint planning, backlog refinement, and retrospectives.

.NET Developer | Accelerated Christian Education, Hendersonville, TN

June 2015 – December 2015

- **Designed & delivered** Windows desktop applications in VB.NET (WinForms), supporting **200+ educators** with streamlined lesson–tracking and grading tools.
- **Refactored** legacy code modules to improve maintainability—introducing layered architecture and reducing the build-deploy cycle.
- **Optimized** T-SQL queries for the reporting database.
- **Led** QA and instructional designers to gather requirements.
- **Collaborated** in cross-functional Agile teams—participating in sprint planning, backlog refinement, and retrospectives.

Education

- **Master of Science in Data Engineering**, University of North Texas, Denton, TX *(Expected May 2026)*
- **Bachelor of Professional Studies in Information Technology**, Middle Tennessee State University, Murfreesboro, TN *(January 2018)*
- **Bachelor's in Computer Information Systems**, Université Technologique Bel Campus, Kinshasa, Democratic Republic of Congo *(December 2012)*

Certifications

- Microsoft Certified: **Azure Fundamentals**
- Microsoft Certified: **Azure Data Fundamentals**
- Graduate Certificate: **Data Science**

Languages

- **English**, Portuguese, French