

LOUIS OTU

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.NET SOFTWARE ENGINEER

Experienced .NET Engineer with 4 years of experience building scalable, high-performance, and secure applications in fintech, edtech, and healthcare industries. Skilled in system design, development, and deployment, with expertise in .NET, C#, Entity Framework, SQL Server, MySQL, PostgreSQL, Redis, Docker, Azure, AWS, Microservices and CI/CD pipelines, leveraging Agile methodologies to deliver robust and efficient solutions.

- SOLID Principles • Object-Oriented Programming (OOP) • Microservices Architecture • Domain-Driven Design (DDD)
- Clean Code Practices • API Design & Development • Security Best Practices • Performance Optimization & Scalability
- Asynchronous Programming and Multithreading • Cloud-Native Development and Containerization

Languages: C#

Web: HTML, CSS, Bootstrap, JavaScript, React.js

Web Services: REST, SOAP

Web/App Servers: IIS, Kestrel

Frameworks: .NET, .NET Core, Node.js

Databases: MS SQL, MySQL, PostgreSQL

Design Patterns: Observer, Mediator, Repository, Unit of Work, CQRS, Factory Method, Singleton

SDLC: Agile, Waterfall

Tools: Visual Studio, Visual Studio Code, JetBrains Rider, Jira, GitHub, BitBucket, Git, SQL Server Management Studio (SSMS), PgAdmin, MySQL Workbench, MongoDB Compass, Postman, Swagger, Insomnia, Docker Desktop, Datadog, Prometheus, Grafana

Platforms: Windows, MacOS

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

KUDA TECHNOLOGIES, Lagos, Nigeria • 03/2023 – 09/2024

A digital-first, mobile banking platform designed to provide seamless financial services across Nigeria, UK, and Canada.

Backend Engineer

Designed, developed, and optimized core microservices for fintech applications.

- Designed scalable, reusable modules for Kuda Suites (Business Accounts, Dispute Management, Loan Processing, Transfer Limits) using .NET and Kafka, improving modularity, data consistency, and team adoption.
- Developed core payment processing flows for Kuda Canada with .NET, Dapr, and third-party integrations, enabling seamless cross-border transactions for African users in Canada.
- Enhanced API performance and background services, reducing response times by 30% through Coravel job processing, Redis caching, and Kafka event streaming for reliable data processing.
- Designed and built a custom API gateway using Ocelot, incorporating custom authentication middleware with encrypted public-private key pairs, enabling secure third-party integrations and reducing integration time by 25%.
- Implemented distributed tracing and telemetry with Datadog and OpenTelemetry, enabling real-time monitoring, reducing system downtime, and improving debugging efficiency.
- Redesigned inter-service communication by transitioning from API-based interactions to an event-driven architecture using Kafka, improving system decoupling, scalability, and fault tolerance across microservices.

Technologies Used: C#/.NET, Entity Framework Core, Dapper, Azure, Docker, Kafka, Dapr, Redis, SignalR, Microsoft Identity, API gateway, AutoMapper, xUnit, Moq, Git, Bitbucket, SQL Server, REST API, Postman, Swagger, DataDog.

DECAGON, Lagos, Nigeria • 07/2020 – 02/2023

A technology talent accelerator that recruits, trains, and manages top-tier software engineers with HQ in Texas USA.

Software Engineer

Developed and optimized enterprise applications in fintech and facility management.

- Engineered and optimized complaint and reply functionality in the Facility Management system using Node.js and React.js, reducing issue resolution time by 35% through enhanced performance and seamless user interactions.
- Fortified system security by implementing Microsoft Identity, JWT token-based authentication, and policy-driven access control, ensuring robust authorization and compliance.

- Architected and maintained real-time applications using .NET, RabbitMQ, and SignalR, ensuring high availability, reliability, and scalability to meet enterprise-grade performance standards.
- Built a scalable messaging and authentication service using SendGrid for email delivery and Twilio for OTP verification, increasing customer engagement by 25% and enhancing communication reliability.
- Developed a targeted survey module with .NET, RabbitMQ, MassTransit, and React.js, equipping field agents with efficient data collection tools and streamlining KYC processes for financial institutions.
- Managed deployments and cloud infrastructure, leveraging AWS, Docker, Heroku, and Kubernetes for efficient CI/CD workflows and scalable system architecture.

Technologies Used: C#/.NET, JavaScript, ReactJS, NodeJS, Visual Studio, JetBrains Rider, Dapper, PostgreSQL, SQLite, Docker, AWS, Azure, RabbitMQ, Redis, SignalR, Trello, GitHub, Postman, SendGrid, Twilio, NLog, Serilog.

INDEPENDENT CONTRACTOR EXPERIENCE

AXXESS, Dallas, USA • 06/2021 – 01/2022

Axxess is the leading global technology platform for healthcare at home.

Engineer I (Remote)

Developed and maintained integration microservices to enable seamless third-party system integrations.

- Built high-performance integration microservices for Axxess TeleHealth and Axxess Records using .NET and Hangfire, enhancing third-party healthcare provider interoperability and increasing data exchange efficiency by 40%.
- Implemented a custom HL7 Serialization package, cutting integration development time by 30% and significantly improving interoperability with external systems.
- Created a custom authentication and authorization system using .NET and Basic Authentication, incorporating advanced request validation and cryptographic hashing to strengthen security and block unauthorized access.
- Engineered scalable, real-time applications with Redis caching, ensuring high availability, reducing database load, and improving system responsiveness.
- Built background job processing systems with Hangfire, automating critical workflows and reducing manual intervention by 50%.
- Conducted rigorous unit and functional testing using xUnit, NSubstitute, and AutoFixture, achieving 85%+ test coverage and reducing production defects.

Technologies Used: C#/.NET, Entity Framework Core, Git, Fork Client, Visual Studio, MySQL, Jira, REST API, Postman, Docker, Swagger, Redis, AutoMapper, Windows OS, Terminal, MediatR, Hangfire, xUnit, NSubstitute, AutoFixture.

ACADEMIC PROJECTS

Maharishi International University (2024)

Gym Management System: Developed a Spring Boot-based gym management system to handle memberships, attendance, trainer assignments, equipment tracking, and training schedules. Implemented secure authentication, seamless data handling, and event-driven notifications. Leveraged Spring Security, JMS, AOP, and MySQL to ensure a scalable and well-structured backend.

PERSONAL PROJECTS

Hotelier 2025: Developed The Hotelier Application, a SaaS solution for hotel management, enabling seamless booking, guest management, and operational optimization. Implemented reservation tracking, occupancy management, and admin/guest interactions. Leveraged .NET (C#), EF Core, Dapper, Microsoft Identity, FluentValidation, AutoMapper, xUnit, React, TypeScript, Vite, Docker, and AWS for a scalable and efficient system.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 04/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: Database Management Systems, Enterprise Architecture, Cloud Computing, Algorithms

Higher National Diploma in Computer Science

Federal Polytechnic Auchi, Auchi, Nigeria (12/2016)

National Diploma in Computer Science

Federal Polytechnic Auchi, Auchi, Nigeria (12/2013)