Damilola Adekoya

(+1) 437-868-1394 | dharmykoya38@gmail.com | Welland, Canada
https://www.linkedin.com/in/damilola-adekoya-solomon/

SUMMARY

Experienced Software Engineer with over 7 years of experience designing and deploying scalable web applications and backend systems across FinTech, logistics, and e-commerce sectors. Proven track record of leading remote development teams, optimizing system performance, and building complex features that drive measurable business results. Known for delivering clean, maintainable code aligned with best practices in OOP, SOLID principles, and agile methodologies. Passionate about continuous learning, mentoring, and contributing to high-impact software products.

SKILLS

Languages: C#, Javascript, Typescript, PHP, Python, GraphQL, HTML, CSS, HTML5.

Libraries/Tools: Laravel, NestJS, NextJS, ReactJS js, VueJS, jQuery, Tailwind CSS, Bootstrap, Dotnet, Cypress, jest, react testing library, Agile/Scrum methodologies, Scikit-learn, Containerization, Agile/Scrum methodologies, Machine learning, RabbitMQ, Redux, Selenium.

Systems: Amazon web service (AWS), Docker, Linux, Lambda, Git, Power shell, Wireshark, OpenVPN, AWS CDK, Kubernetes, Jenkins, CI/CD, Github Actions, GCP(Azure).

Database: Mysql, PostgreSQL, MongoDB, DynamoDB, Elastic Search, Redis, Azure, Mssql

AI: Generative AI, NLP, Prompt Engineering.

Github: https://github.com/dharmykoya

EXPERIENCE

Niagara Industrial Association, Niagara, Canada — *Senior Software Engineer(Freelance Contract)*

April 2025 - PRESENT

- Developed a CRM tool to manage association members, enabling tracking of profiles, status updates (e.g., cancellations), and opportunity creation, improving member management efficiency by 60%.
- Implemented export/import functionality in the CRM, streamlining data migration and reducing manual processing time by 40% through optimised database queries.
- Built analytics dashboards for member engagement and retention, providing actionable insights that enhanced strategic decision-making by 30%.
- Ensured CRM system stability by resolving production issues and performing root cause analysis, maintaining 99.9% uptime and meeting service level agreements.

Payjoy, San Francisco, USA — *Senior Full-stack Engineer*

March 2022 - December 2024

- Designed and implemented a solution leveraging a third-party API to assess user creditworthiness through monthly statements. This innovation notably curtailed company risk by 15%.
- Collaborated with the frontend team to implement redesigned interfaces for the PayJoy app, benefiting phone vendors and contributing to an outstanding 200% boost in user engagement.
- Mentored and coached 10+ junior engineers, providing guidance on technical challenges, facilitating their professional growth, and enabling 3 team members to earn promotions within 12 months.
- Led the hiring process, interviewing and assessing 20+ candidates, resulting in the successful onboarding of 6 top-performing engineers and boosting team productivity by 40%.
- Conducted code reviews and provided constructive feedback to maintain high code quality, catching potential issues early and reducing production defects.

Shiprocket, India — *Software Engineering Consultant*

January 2021 - February 2022

- Integrated QR codes into shipping invoices, effectively eradicating counterfeit and forged receipts. This resulted in a remarkable 90% reduction in fraudulent transactions.
- Improved database performance by 50% through enhancements in SQL and Eloquent queries, normalization, and indexing techniques.
- Revamped the COD remittance module, transforming vendor payouts from a 5-day delay to a rapid 24-hour turnaround post-delivery.
- Designed, implemented and successfully deployed an advanced booking service, resulting in a remarkable 70% boost in system speed, and response time and significantly enhancing user experience.
- Led the design, implementation and seamless deployment of the promotion and service, resulting in a 100% user retention rate among existing customers.
- Introduced strict code review practices into the team workflow, and achieved a 100% reduction in production-bound bugs due to improved code quality.
- Refactored existing functionalities and classes to align with the DRY principle and OOP patterns leading to an impressive 80% enhancement in static code analysis.

Other Experience

- SystemSpecs(Whatadeal), Lagos, Nigeria-Senior Backend Engineer(Freelance) -December 2022-December 2024
- CredPal, Lagos, Nigeria - Software Engineer - June 2020 - February 2022
- Andela, Lagos, Nigeria - Software Engineer - June 2019 - November 2019.
- Bincom ICT, Lagos, Nigeria - Software Engineer - January 2018 - June 2019

Projects/Accomplishments

- Part of the team that built the First Credit Card application in Nigeria.
- Lead a team of 5 engineers to build a flight booking application.
- Link to other projects:
  https://docs.google.com/document/d/1gmGPsMpiqlKH6vZv_7wgqBrMH7gINczpdoY1WeVenFI/

EDUCATION

Niagara College, Canada — *Diploma in Computer Programming*
December 2023 - April 2025, Canada

University of Lagos, Nigeria — *Applied Physics (Electronics Options)*
November 2011 - November 2016, Nigeria

DAMILOLA ADEKOYA

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Dear Hiring Manager,

I'm excited to apply for the Senior Fullstack Developer position, with over seven years of experience building scalable enterprise applications using technologies like C#, .NET 6+, PHP, React, TypeScript, AWS, and Azure. I'm confident in my ability to deliver scalable, secure, and maintainable solutions that align with your mission.

Here's how my experience aligns with your needs:

.NET & C# Expertise: Developed complex backend systems using ASP.NET Core, Entity Framework, and LINQ. Leveraged asynchronous programming and dependency injection to deliver modular, testable services. Designed microservices architectures with gRPC/REST APIs and message brokers (RabbitMQ, Azure Service Bus, Kafka) for distributed communication. Improved performance through advanced Entity Framework techniques (compiled queries, batching, raw SQL) and caching strategies with Redis and in-memory providers. Applied Clean Architecture and Domain-Driven Design (DDD) principles to ensure maintainability and scalability. Implemented enterprise-grade authentication and authorization using OAuth2, OpenID Connect, JWT, and Azure AD. Integrated observability with Serilog, Application Insights, and OpenTelemetry for distributed tracing and monitoring. Deployed and scaled .NET applications in Azure, Docker, and Kubernetes environments while maintaining CI/CD pipelines in GitHub Actions and Azure DevOps.

PHP & Laravel: Developed and maintained microservice-based and high-traffic applications using Laravel and modern PHP 8 features. Designed REST APIs and modular services with Laravel's Eloquent ORM, service container, and middleware for clean and reusable code. Improved performance by optimising database queries, using Redis for caching, and handling async tasks with queues (RabbitMQ, Redis, SQS). Applied SOLID principles and clean architecture patterns to keep applications easy to maintain and scale. Used Laravel Horizon and Supervisor to monitor and manage background jobs reliably. Implemented role-based authentication and API security using Laravel Passport, Sanctum, and JWT. Integrated observability and logging with Cloudwatch, Sentry, and Laravel Telescope to track errors and application performance. Worked with CI/CD pipelines in GitHub Actions and GitLab CI, containerized apps with Docker, and deployed to AWS, Azure, and Kubernetes environments.

NodeJS, ExpressJS & NestJS: Experience building RESTful API services that are easy to maintain and scale. Worked with microservices by breaking features into smaller services, using

caching to speed things up, and queues to handle background jobs for async tasks. Also experienced in writing optimised database queries to improve performance and reduce load.

SQL & NoSQL Database Mastery: Designed normalised schemas and optimised queries in SQL Server, MySQL, and PostgreSQL, reducing query times by up to 40%. Also have experience working with NoSQL databases like MongoDB and Azure Cosmos DB for high-throughput, flexible data storage for real-time and analytics-based features.

Frontend with React & NextJs: Built responsive, scalable and component-driven UIs using React, TypeScript, and modern hooks architecture, leveraging useState, useEffect, useMemo, and custom hooks to ensure maintainability and reusability across projects. Implemented efficient state management solutions with Redux Toolkit, Context API, and React Query, balancing local and global state to reduce unnecessary re-renders and improve performance. Integrated RESTful and GraphQL APIs with robust error handling, caching, and optimistic UI updates, creating a seamless user experience. Applied React Router with dynamic route handling for complex navigation flows, including role-based routing and lazy-loaded modules to enhance scalability. Optimized applications with code splitting, Suspense, and lazy loading to improve initial load times and Core Web Vitals. Ensured accessibility by following WCAG 2.1 guidelines, implementing semantic HTML, ARIA attributes, and keyboard navigation support. Adopted test-driven development practices with Jest, React Testing Library, and Cypress to maintain a reliable and well-tested codebase. Collaborated closely with designers using Storybook for component prototyping and documentation, maintaining design consistency with TailwindCSS and custom design systems. Improved performance by applying memoization, virtualization techniques, and debugging tools like the React Profiler, significantly reducing rendering bottlenecks in data-heavy applications. Deployed React applications using CI/CD pipelines with GitHub Actions, Vercel, and Azure DevOps, and continuously monitored performance and errors with Lighthouse and Sentry to ensure high-quality production releases.

Component-Driven Development: Delivered pixel-perfect UI by collaborating with designers in Figma, adopting a component-driven development approach. I've contributed to design systems and handled cross-browser compatibility and edge cases in large-scale production apps.

API Integration Expertise: Integrated GraphQL and REST APIs with pagination, real-time updates via WebSockets, and retry strategies using Axios/React Query. Handled auth workflows, form validations (Formik + Yup), and fine-tuned UX around loading and error states.

Cloud & DevOps on Azure:.Deployed microservices to Azure App Services and AKS. Built CI/CD pipelines using GitHub Actions and Azure DevOps, cutting deployment time. Used Azure Monitor and Application Insights for performance tracking and diagnostics.

Security & Testing: Experience implementing OAuth2, Azure AD, and role-based access control. Achieved 95%+ test coverage across core modules using xUnit and Jest for unit and integration testing.

Beyond technical skills, I thrive in collaborative environments:

- I conduct thorough code reviews focused on performance, readability, and security—helping eliminate production issues before deployment.

- I mentor junior developers on SOLID principles, clean architecture, and best practices across .NET, PHP, and frontend frameworks like React.

- I document APIs using Swagger/OpenAPI and maintain clear system architecture documentation to support smooth onboarding and cross-functional collaboration.

My full-stack expertise in .NET, C# , PHP, Python, React, Vue, AWS and Azure, along with a strong foundation in both SQL and NoSQL data management, aligns well with your vision of building practical, high-impact software. You can explore my portfolio at: https://docs.google.com/document/d/1gmGPsMpiqlKH6vZv_7wgqBrMH7gINczpdoY1WeVenFI/edit?tab=t.0.

Programming Project I Am Proudest Of and Why

I am particularly proud of leading a team of five engineers to build a flight booking platform. I served as the architect and oversaw the design and implementation of a microservices-based architecture that leveraged an API Gateway to manage requests between services efficiently. The platform integrated multiple backend services for flight search, booking, and ticketing, with asynchronous communication handled via AWS SQS and SNS for reliable messaging. We used Redis for caching frequently accessed data, improving response times and reducing database load.

This project required designing scalable, high-performance systems, implementing secure authentication and authorization workflows, and optimizing database queries. As the architect, I made key decisions on service boundaries, data flow, and inter-service communication, ensuring that the system was modular, maintainable, and resilient. The project stands out because it demonstrates my ability to combine technical leadership, architectural design, and hands-on development to deliver a complex, real-world platform that scales effectively and reliably.

Network Administration Project I Am Proudest Of and Why

In addition to software development, I have experience in network administration, particularly in setting up and managing enterprise-grade environments. One notable project involved deploying and securing an internal company network across multiple offices using Azure Virtual Networks, VPNs, and access policies. I implemented role-based access control, monitored traffic with Azure

Monitor, and optimized network performance for seamless internal communications. This project required careful planning and attention to security, and it strengthened my understanding of the interplay between application performance and network reliability.

Outside Interests

Outside of work, I enjoy staying current with emerging technology trends, experimenting with pet projects, and contributing to open-source projects. I also have an interest in personal productivity tools and community-driven applications, such as platforms for sharing resources or improving collaboration. In my downtime, I enjoy reading, exploring new technologies, and occasionally building small projects to challenge my skills and creativity.

Pet Projects

1. CRM Tool
Link: https://appstart-crm.azurewebsites.net/
Demo Credentials:
Email: admin@outlook.com
Password: Pa55w@rd
Description: A CRM system for managing association members, including features for member tracking, document uploads, and interaction notes.
Tech Stack: C#, .NET MVC, SQLite, Azure (hosting), HTML, bootstrap.

2. Food Sharing Platform
Link: https://foodfestin.azurewebsites.net
Demo Credentials:
Email: super@outlook.com
Password: Pa55w@rd
Description: A community-driven app for food sharing, with an admin panel for management.
Tech Stack: C#, .NET MVC, SQLite, Azure (hosting), HTML, bootstrap.

Thank you for your time and consideration. I look forward to the opportunity to discuss how my skills and experience can contribute to the success of your team.

Warm Regards,
Damilola Adekoya