Dennis Odalonu

Software developer
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PROFESSIONAL SUMMARY

Software Developer with 3+ years of experience designing and delivering scalable backend services, API integrations, and data driven applications across web and mobile platforms. Skilled in building maintainable software using TypeScript, Node.js, Python, and PostgreSQL, with a focus on performance, reliability, and clean system architecture. Experienced in collaborating across engineering teams to develop secure, efficient, and production ready solutions that solve real business challenges.

CORE COMPETENCIES

Back-end Software Development | RESTful API Development | Microservices Architecture | Distributed Systems | Cloud-Native Development | System Design | Database Design & Optimisation | Performance Tuning | API Integration | Secure Software Development | Authentication & Authorisation | Software Architecture | CI/CD | Agile Scrum | Test driven Development (TDD) | Code Review | Debugging & Root Cause Analysis | DevOps Collaboration | Cross Functional Stakeholder Collaboration | Software Delivery.

KEY ACHIEVEMENTS

- Engineered distributed backend services using Node.js, Redis, and Bull MQ, eliminating an 18.7% duplicate event processing rate and improving transactional reliability across 240,000+ monthly payment transactions.
- Optimised PostgreSQL database performance through composite indexing and connection pool tuning, reducing 95th percentile API response times from 4,247ms to under 450ms while improving platform scalability under peak workloads.
- Improved software delivery reliability by optimising CI/CD pipelines and automated testing workflows, reducing build failure rates from 34.8% to below 2% and enabling faster, more dependable production releases.

WORK EXPERIENCE

Software Engineer /Back-end Platform |Plousios Gigantas — Jan 2026 - Present
United Kingdom

Develop and maintain scalable backend services, RESTful APIs, and cloud native microservices supporting a high availability B2B SaaS platform, collaborating with cross functional engineering teams to deliver secure, resilient, and performant software solutions.

- Engineered distributed locking mechanisms using Redis and Bull MQ within Node.js services, eliminating duplicate event processing during high volume asynchronous workloads and improving transactional reliability across distributed systems.
- Redesigned payment processing workflows by implementing resilient retry logic with exponential backoff, preventing recurring processing failures and supporting the reliable handling of 240,000+ payment transactions per month.
- Strengthened application security by implementing refresh token rotation, enhancing tenant level authorisation controls, and remediating OWASP API security risks, supporting compliance with UK GDPR and secure software engineering best practices.
- Improved engineering productivity by refining CI/CD pipelines, automated build workflows, and testing processes, reducing deployment failures and improving release reliability across engineering teams.
- Collaborated with software engineers, DevOps, QA, and product teams to enhance platform observability through Kubernetes health checks, Prometheus metrics, Grafana dashboards, and structured application logging, supporting continuous delivery and operational excellence.
- Conducted peer code reviews across Agile sprint cycles, providing technical feedback, maintaining coding standards, and promoting engineering best practices that improved code quality and release readiness across the development team.

- Optimised PostgreSQL database performance through composite indexing and connection pool tuning, reducing API response times from over 4 seconds to under 500ms while improving scalability under peak workloads.

Technical Operations Assistant | County Hall — Aug 2024 - April 2026
United Kingdom

Support the operation of digital asset management systems and technical processes, maintaining accurate system records, troubleshooting operational issues, and collaborating with cross functional teams to improve data integrity and service efficiency across council operations.

- Maintain and validate 1,000+ digital asset records within asset management systems, conducting routine data audits that improve data accuracy and reduce asset tracking discrepancies across operational teams.
- Investigate and resolve 25+ system and asset-elated support requests each month, analysing incidents, updating system records, and contributing to a 15% reduction in tracking errors and operational disruptions.
- Collaborated with facilities, IT, and operational stakeholders to streamline digital record management and reporting workflows, reducing administrative processing effort by 15% and improving operational efficiency across council teams.
- Produce and maintain 20+ operational reports and data extracts each month using Microsoft Excel and internal management systems, identifying data inconsistencies and supporting evidence-based operational planning and resource allocation.
- Coordinate user access updates and system record maintenance across 3+ internal business systems, ensuring accurate information management, timely issue resolution, and compliance with organisational data governance procedures.

Software Developer | Prunedge Technologies — May 2022 - Oct 2023
Nigeria

Developed and maintained responsive web and mobile applications, collaborating with cross functional engineering teams to deliver scalable software solutions, integrate backend services, and enhance application performance throughout the software development lifecycle.

- Designed modular application components and reusable code libraries, improving application maintainability and reducing page loading times by 30% across production features.
- Integrated 15+ RESTful APIs and third party services, implementing robust data validation and structured JSON parsing to ensure reliable system integration and consistent data exchange between front-end and back-end platforms.
- Collaborated with back-end engineers to define and maintain API contracts, reducing feature integration effort by 25% and accelerating delivery of new application functionality across Agile sprint cycles.
- Refined frontend rendering logic and asynchronous data handling, decreasing client side rendering delays by 20% and improving application responsiveness across web and mobile environments.
- Diagnosed and resolved 60+ software defects using structured debugging, code reviews, and root cause analysis, improving application reliability and reducing recurring production issues.
- Contributed to Agile ceremonies, peer code reviews, and technical planning sessions, collaborating with software engineers, QA analysts, and product stakeholders to deliver maintainable, high-quality software aligned with business requirements.

Junior Mobile Software Engineer | Decagon — Oct 2020 - Mar 2022
Nigeria

Contributed to the design, development, testing, and maintenance of mobile software applications within Agile Scrum teams, applying MVC architecture, secure coding principles, and software engineering best practices throughout the development lifecycle.

- Developed 20+ back-end API endpoints and interactive user interface components using JavaScript, Python, SQL, and RESTful services, enabling seamless communication between application layers and supporting new product functionality.
- Implemented unit and integration testing across frontend and backend modules, increasing automated test coverage by 35% and reducing defects identified during user acceptance testing and post release validation.

- Optimised SQL queries and database interactions for 10+ application modules, improving data retrieval performance by 25% and enhancing overall application responsiveness under production workloads.
- Resolved 70+ software defects and enhancement requests by performing root cause analysis, debugging application code, and implementing sustainable fixes that improved platform stability and user experience.
- Participated in Git based version control workflows, contributing to peer code reviews and collaborating with engineers to maintain coding standards, improve code quality, and deliver reliable features across Agile sprint cycles.
- Collaborated with software engineers, QA analysts, and product stakeholders during sprint planning, technical reviews, and release activities, contributing to continuous improvement initiatives and the successful delivery of scalable, maintainable software solutions.

EDUCATION

M.Sc. Advanced Computer Science |Cardiff Metropolitan University| Grade: Distinction 2023 – 2024
Postgraduate Certificate in Data Science / Machine Learning |Learning Saints Academy 2024
M.Sc. Computer Science |University of Port-Harcourt 2018 – 2021
B.Sc. Computer Science |Novena University 2012 – 2015

CERTIFICATIONS

Scrum Fundamentals Certified |IT Career Switch Full Stack Development Program

TECHNICAL SKILLS & TOOLS

Programming Languages: TypeScript, JavaScript, Node.js, Python, SQL, Kotlin, Android Development.

Backend Development: RESTful APIs, Microservices, Express.js, Asynchronous Processing, Bull MQ, Redis, JSON, API Integration, Authentication & Authorisation.

Databases: PostgreSQL, SQL Query Optimisation, Database Indexing, Connection Pooling, Data Modelling.

Cloud & DevOps: Kubernetes, Docker, CI/CD, Git, GitHub, Automated Build Pipelines, Prometheus, Grafana.

Testing & Quality: Unit Testing, Integration Testing, Debugging, Root Cause Analysis, Code Reviews, Performance Optimisation, Secure Coding, OWASP API Security.

Architecture & Methodologies: Distributed Systems, MVC Architecture, Agile Scrum, SDLC, Software Design Principles.

Tools & Collaboration: Visual Studio Code, Postman, Microsoft Excel, Jira, GitHub, Prometheus, Grafana.