

# Kenechukwu S. Modebelu

## Senior Software Developer | Cloud & DevOps Engineer | Full-Stack JavaScript/TypeScript

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### PROFESSIONAL SUMMARY

Senior Software Developer and Full-Stack Engineer with 4+ years' experience delivering production-grade JavaScript and TypeScript solutions across backend services, web platforms, data-driven systems, and cloud-hosted applications. Strong in Node.js/Express, React, Next.js, Angular, REST APIs, Sequelize/MySQL, AWS, Docker, Nginx, Linux server administration, DNS, HTTPS/SSL, and CI/CD. Experienced in owning technical solutions from design through production deployment, improving scalability, performance, maintainability, and deployment reliability for enterprise systems and client-facing web solutions.

### TECHNICAL SKILLS

**Cloud & DevOps:** AWS, EC2, VPC, public subnets, Internet Gateway, route tables, security groups, S3, VPC Flow Logs, Elastic IP, Nginx, Ubuntu Linux, DNS, HTTPS/SSL, Let's Encrypt/Certbot, SSH, Docker, CI/CD, CodeBuild, CodePipeline, Elastic Beanstalk

**Languages:** TypeScript, JavaScript ES6+, Python, R, SQL

**Frontend:** React, Next.js, Angular, Ionic, HTML5, CSS, Tailwind CSS, Bootstrap, shadcn/ui, frontend architecture, state management

**Backend:** Node.js, Express, REST APIs, API-driven architecture, microservices, BFF patterns, Sequelize ORM, JWT, NextAuth

**Data & BI:** MySQL, SQL Server, Prisma, Power BI, Pandas, NumPy, SQL reporting, dashboard development

**Engineering Practices:** Git/GitHub, Agile/Scrum, TDD, automated testing, code review, clean architecture, maintainability, production support

**Exposure/Familiarity:** GraphQL, event-driven programming, distributed systems, enterprise integrations, React Native, Vue, Svelte, C#/ASP.NET

### PROFESSIONAL EXPERIENCE

#### Senior Software Developer / Full-Stack Software Developer

Feb 2023 - Present

Calgro M3 - Sandton, South Africa

- Built and extended MPMS, a multi-tenant enterprise platform serving 50,000+ ownership records across 5 business units with 99.9% uptime.
- Led the migration of a monolithic system into 8+ decoupled microservices, improving maintainability, deployment flexibility, and service ownership across the platform.
- Designed and delivered an approval matrix capability end-to-end, including Sequelize data modelling, cross-service API integration, backend business logic, and Next.js admin UI workflows.
- Improved performance on a high-volume 2,600+ record section page by redesigning API responses, introducing pagination, and restructuring Angular data loading, reducing load time by 40%.
- Refactored the announcements service into a clean API / Service / Repository architecture, reducing ORM coupling and improving testability and maintainability.
- Built AWS CodeBuild/CodePipeline CI/CD workflows, reducing deployment time from 2 hours to 15 minutes and improving release reliability.
- Diagnosed and resolved production authentication and data-access issues involving NextAuth JWT handling, Microsoft Entra OIDC identifiers, Sequelize joins, and AWS Elastic Beanstalk deployments.
- Containerised services with Docker, reducing environment-related bugs by approximately 85%, and delivered Power BI dashboards on MySQL data for executive reporting.
- Supported cloud-hosted production systems by troubleshooting deployments, environment issues, server connectivity, data refresh failures, and access/configuration problems across web and reporting platforms.

#### Full-Stack Web Developer (Freelance)

Jan 2019 - Present

Kenny's IT Consulting - Johannesburg, South Africa

- Delivered 15+ custom web applications and websites for SME clients across retail, services, and consulting verticals.
- Built React/Node.js stacks with MySQL backends; handled requirements gathering, deployment, hosting support, and ongoing maintenance directly with clients.
- Configured website deployments, domains, SSL/HTTPS, email-related settings, and client handover support for small business web projects.
- Maintained approximately 90% client retention through responsive support, clear communication, and incremental feature delivery.

#### Drive Test Technician (Internship)

Dec 2017 - Jul 2018

ZTE Corporation - Rivonia, South Africa

- Performed mobile network drive testing and optimisation; collected and analysed RF performance data; produced technical reports for the engineering team.

### SELECTED CLOUD & DEVOPS PROJECTS

- AWS Nginx Portfolio Deployment:** Built a custom AWS network with VPC, public subnet, Internet Gateway, route table, security group, S3 bucket for VPC Flow Logs, EC2 instance, Elastic IP, Nginx, DNS A record configuration, and HTTPS using Let's Encrypt.
- Cloud Portfolio Website:** Customized and prepared a static responsive portfolio website for deployment on Ubuntu/Nginx, with project content highlighting AWS, DevOps, server configuration, and secure web hosting.
- CI/CD Automation:** Implemented AWS CodeBuild and CodePipeline workflows to streamline deployments and reduce release time from 2 hours to 15 minutes.

## SELECTED IMPACT

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- Reduced section page load time by approximately 40% via endpoint slimming and pagination on a 2,600+ record dataset.
- Cut deployment time from 2 hours to 15 minutes, an approximately 87% reduction, by automating CI/CD on AWS.
- Migrated a monolith to 8+ microservices with zero customer-facing downtime, including a shared types package.
- Diagnosed and resolved a production outage on Elastic Beanstalk caused by a shared package export mismatch.

## TRAINING & COMMUNITY

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### Open Source Contributor - 100Devs Remote Community

Jan 2022 - Jan 2023

Remote -

- Completed self-directed full-stack training through the 100Devs open community programme; built 10+ React/Node/Express portfolio applications and contributed to peer code reviews.

## EDUCATION & CERTIFICATIONS

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**Advanced Diploma in Electrical Engineering (Electronics) - NQF Level 7:** Vaal University of Technology | 2020-2022 | NZQA International Qualification Assessment in progress - Bachelor-equivalent. Distinctions: Digital Communication II (88%), Microwave Engineering (86%), Radio Engineering (81%).

**Data Science Bridging Modules - Cum Laude (85%):** Eduvos | 2025 | Data Structures & Algorithms in Python (89%), R Programming for Data Science (80%).

**Data Science Programme (in progress):** ALX Africa | Mar 2025 - Jun 2026 expected | Python, Machine Learning, AWS.

**IELTS Academic - Overall Band 7.5:** Listening 8.5 | Reading 9.0 | Speaking 7.0 | Writing 6.0 | June 2025.

## ADDITIONAL

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**Languages:** English (fluent - IELTS 7.5), Igbo (native), German (basic) | **Interests:** Cloud engineering, DevOps, machine learning, data visualisation, chess, tennis, language learning | **Availability:** Immediate