

Katekani Nyamandi

Junior Software Developer

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Career Summary

- Junior Software Developer skilled in **JavaScript, React, Node.js, Express.js, and PostgreSQL**, with strong knowledge of **RESTful API design** and **modular architecture patterns**.
- Experienced in **applying usability and accessibility best practices** to deliver intuitive, error-resistant, and user-friendly interfaces.
- Adept at **troubleshooting and resolving production issues**, reducing escalations and improving system stability.
- Knowledgeable in **security principles** including authentication, authorization, input validation, and secure data handling.

Technical Skills

Languages & Frameworks: JavaScript, React, React Native, Node.js, Express.js, PostgreSQL, HTML, CSS, Tailwind CSS, Sass, Bootstrap

Architecture & Design: RESTful APIs, Multi-tier Applications, MVC, Modular Design, SOLID Principles

Security & Reliability: Authentication & Authorization (JWT, OAuth), Error Handling, Logging, Input Validation, Performance Monitoring

Tools & Practices: Git, GitHub, CI/CD, Docker, REST APIs, Supabase, Firebase, WordPress, Adobe Experience Manager, Webpack, Render, Vercel

Testing & Quality: Unit Testing (Jasmine), Test-Driven Development (TDD)

Professional Experience

Junior Developer

Mar 2025–Present

Ogilvy & Mather South Africa

- Designed and implemented **multi-tier web solutions** using React.js, Node.js, and Express.js, ensuring scalability and maintainability.
- Integrated RESTful APIs with **caching and error handling** strategies, improving API response times by 40% and reducing downtime.
- Applied **accessibility and usability best practices** to deliver pixel-perfect, user-friendly interfaces from Figma mockups.
- Collaborated with QA and DevOps teams to **troubleshoot production issues**, reducing escalations by 30%.
- Automated CMS workflows in WordPress and Adobe Experience Manager, cutting content deployment time by 45%.

Fullstack Web Developer Intern

Mar 2024–Mar 2025

Ogilvy South Africa | Umuzi.org

- Designed and developed backend services with **secure database connections** and optimized queries, ensuring high availability.
- Implemented **unit and integration tests** achieving 95% code coverage, improving solution reliability.

- Built **error-resilient full-stack applications** with CRUD operations, authentication, and role-based access control.
- Configured CI/CD pipelines with Docker and Webpack, enabling zero-downtime deployments.
- Conducted peer code reviews for 30+ learner developers, applying SOLID principles to maintain consistent code quality.

Projects

Cadbury Mood-to-Chocolate AI Recommendation App | [🔗 Live Demo](#)

React, Gemini Vision API, Camera Integration, Tailwind CSS

- Designed an AI-powered recommendation engine integrating Gemini Vision API for real-time emotion analysis.
- Applied **error prevention and input validation** to ensure accurate recommendations.
- Delivered a responsive, accessible UI improving user engagement.

Github API Consumer | [🔗 Live Demo](#)

Node.js, Express, Jasmine, HTML, CSS, Render

- Architected a Node.js/Express.js application consuming GitHub API with **comprehensive error handling and logging**.
- Achieved **100% automated test coverage** ensuring long-term maintainability

AI-Powered Plant Care Assistant | [🔗 Live Demo](#)

React Native, PlantNet API, Expo

- Built a React Native mobile app with camera-based plant identification and **secure API integration**.
- Implemented **persistent storage and reminders** for improved usability.

Education

University of Pretoria

Bachelor of Science in Mathematical Statistics

Analytical foundation with 3 modules outstanding

Final year

Umuzi.org

Higher Certificate: Systems Development

Mar. 2024 – Mar. 2025