

VENESSA NALUGALA CHEBUKWA

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PROFILE

Senior Software Engineer with 5+ years of experience building production-grade, scalable systems across backend infrastructure, payment platforms, and cross-functional product development. Proven track record leading mobile and full-stack engineering in high-growth environments, with expertise in cloud architecture (GCP), API design, and CI/CD automation. Passionate about mission-driven work that delivers measurable impact—leveraging technical depth and product thinking to drive innovation and scale operations globally.

SKILLS

Backend & Infrastructure: Python (Django, automation), Java (Spring Boot), Node.js (Actionhero.js), Laravel (PHP), REST API design & integration, microservices architecture, CI/CD (GitHub Actions, GitLab CI), Docker, serverless deployment

Cloud & DevOps: Google Cloud Platform (GCP), infrastructure automation, system monitoring, performance optimization

Databases: MySQL, PostgreSQL, MongoDB, Firebase—high-volume transaction handling, analytics, and reporting

Payment Systems: Payment gateway integration, PCI-DSS compliance, fraud detection systems, financial software optimization

Frontend & Mobile: React.js, Next.js, TypeScript, Flutter, Swift/SwiftUI, responsive web design

Product & Collaboration: Agile/Scrum, sprint planning, roadmap development, cross-functional team collaboration (product, ops, data), technical documentation

Developer Tools: Git, Postman, VS Code, Android Studio, Xcode

EMPLOYMENT HISTORY

◆ Product Manager & Lead Mobile Developer | ProDG

October 2025 – Present

- Led end-to-end product development for multiple high-impact applications, including Message Heard—an AI-driven communication platform later acquired by Amazon—overseeing product strategy, engineering execution, and cross-team coordination from discovery through launch.
- Architected scalable mobile systems using Flutter with clean MVC patterns and GetX state management, ensuring maintainability and performance at scale across iOS and Android platforms.
- Directed sprint planning, feature prioritisation, and stakeholder communication, aligning engineering deliverables with strategic business goals and ensuring on-time, high-quality releases.
- Elevated team development standards by implementing robust code review processes, comprehensive documentation practices, and automated CI/CD workflows, significantly improving delivery velocity and code quality.

◆ Fullstack Developer | ProDG

January 2025 – October 2025

- Designed and developed UI/UX and frontend systems for SME Marketplace for VGG Group, enabling small and medium enterprises to list, manage, and transact on a scalable digital platform built with React, Next.js, and TypeScript.
- Built a Portfolio Indexing System for VGG Group using React, Next.js, and TypeScript, providing real-time portfolio tracking, analytics, and reporting capabilities for investment management.
- Led UI/UX redesign projects for UBA and Standard Bank, modernising their digital interfaces with component-driven React architectures and improved accessibility standards.
- Developed Digital AI Network Intelligence (DANI) for VGG and RedTech Group—an AI-powered intelligence platform built with Python and Next.js that aggregates and analyses network data to deliver actionable insights.
- Executed the Hodari Redesign project, rebuilding the platform frontend with Next.js and TypeScript to improve performance, design consistency, and user experience.

- Delivered cross-platform mobile features using Flutter, ensuring seamless iOS and Android parity across multiple client applications.

◆ **Software Engineer | Savannah Technologies (UK)**

March 2025 – Present

- Built and integrated production-ready RESTful APIs and payment gateway systems across multiple third-party services, ensuring PCI-DSS compliance, security best practices, and optimisation for high-volume financial transactions.
- Developed and maintained web applications using JavaScript frameworks and Laravel (PHP), managing SQL/NoSQL databases for real-time analytics, reporting dashboards, and transactional data processing at scale.
- Automated critical operational workflows using Python scripts for data extraction, fraud detection algorithms, automated reporting, and system health monitoring—significantly reducing manual intervention and improving operational efficiency.
- Collaborated closely with cross-functional teams to design scalable cloud architectures on Google Cloud Platform (GCP) and troubleshoot production issues across application layers, APIs, and database infrastructure.

◆ **Full-Stack Mobile Developer | MyZola**

March 2022 – October 2024

- Owned the complete mobile application lifecycle from initial concept through production deployment, working directly with executive leadership to transform early-stage ideas into a market-ready Flutter application serving thousands of users.
- Designed and implemented the full UI/UX architecture, created a comprehensive library of reusable components, and maintained consistent design systems across the entire application—ensuring brand coherence and optimal user experience.
- Integrated the mobile frontend with a Laravel backend, optimising API communication patterns, implementing efficient data caching strategies, and ensuring responsive performance across varying network conditions.
- Drove continuous improvements in application performance, design quality, and user experience through data-driven iteration, user feedback integration, and proactive technical debt management in the startup's formative stages.

◆ **Mobile Development Intern | Uzapoint**

June 2021 – February 2022

- Built the company's mobile application from the ground up, establishing the foundation for their mobile presence and enabling customers to access services on-the-go.
- Collaborated with senior developers and the lead development team to implement core features, integrate backend APIs, and ensure cross-platform compatibility.
- Gained hands-on experience with production mobile development workflows, code review processes, and agile development methodologies under the mentorship of experienced engineers.

EDUCATION

◆ **Strathmore University**

2021 – 2025

Bachelor of Science in Informatics and Computer Science

Dean's List (2022–2023, 2023–2024) | SUAFI Hackathon Winner (2024)

ADDITIONAL QUALIFICATIONS

Cross-functional Leadership: Proven ability to collaborate effectively with product managers, operations teams, and data analysts to deliver user-centered solutions that directly support field operations and program delivery.

Production Systems Ownership: Experienced in debugging complex production issues, performing root cause analysis, implementing long-term architectural fixes, and maintaining system reliability under high-traffic conditions.

Sustainable Engineering Practices: Strong advocate for comprehensive testing strategies, clear technical documentation, robust monitoring systems, and maintainable code architecture—ensuring long-term system health and team velocity.

Mission Alignment: Deeply committed to leveraging technology for social impact, building systems that improve lives, scale operations, and create measurable value for users and organisations globally.

Availability: Fully available for East Africa timezone collaboration and able to travel 1-2 times annually for team retreats and field visits.

REFERENCES

Mr. Wayne Asava — Director, ProDG

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Mr. Shoaib — Director, Savannah Technologies

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Professor Christine Gichure — Mentor, Strathmore University

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