

VENESSA NALUGALA CHEBUKWA

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PROFESSIONAL SUMMARY

Results-driven Software Engineer and Product Manager with 5+ years of experience delivering scalable mobile applications, web platforms, and backend systems. Expert in Flutter, React.js, Django REST Framework, and cloud infrastructure (GCP). Proven track record leading cross-functional teams, managing product roadmaps, and shipping high-impact features from discovery to production. Specialized in mobile-first development (iOS/Android), RESTful API design, payment systems integration, and Agile project management. Seeking Mobile Engineer, Full-Stack Engineer, or Technical Product Manager roles where technical expertise and product thinking drive measurable business outcomes.

CORE COMPETENCIES

- Mobile Development: Flutter (GetX, Provider, Riverpod), Swift/SwiftUI, Kotlin, iOS, Android, cross-platform development, MVC/MVVM architecture, app store deployment, mobile CI/CD
- Frontend Development: React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, responsive design, component libraries, accessibility (WCAG), SEO optimization
- Backend & APIs: Python (Django REST Framework, Flask), Node.js (Express, Actionhero.js), Laravel (PHP), Java (Spring Boot), RESTful API design, GraphQL, microservices, authentication (OAuth, JWT)
- Databases: PostgreSQL, MySQL, MongoDB, Firebase Realtime Database, Firestore, Redis, database optimization, indexing, query performance tuning
- Cloud & DevOps: Google Cloud Platform (GCP, Cloud Functions, Cloud Run, App Engine), AWS basics, Docker, containerization, CI/CD pipelines (GitHub Actions, GitLab CI, Bitrise), serverless architecture
- Payment Systems: Payment gateway integration (Stripe, PayPal, Flutterwave, M-Pesa), PCI-DSS compliance, fraud detection, transaction monitoring, reconciliation systems
- Product Management: Product roadmap development, feature prioritization, user story mapping, stakeholder management, sprint planning, backlog grooming, OKR frameworks, A/B testing, analytics (Google Analytics, Mixpanel)
- Agile & Collaboration: Scrum Master experience, sprint planning, daily standups, retrospectives, JIRA, Asana, Trello, Confluence, technical documentation, cross-functional team leadership
- Development Tools: Git/GitHub/GitLab, Postman, Swagger, VS Code, Android Studio, Xcode, Firebase Console, Figma, Adobe XD, Chrome DevTools

PROFESSIONAL EXPERIENCE

Product Manager | ProDG | October 2025 - Present

- Lead product strategy for Message Heard, an AI-powered podcast visualization platform serving 10,000+ creators (including Mr. Ballen), resulting in acquisition by Amazon through development of computer vision algorithms that processed 50,000+ podcast episodes monthly

- Own end-to-end product lifecycle from discovery to launch by conducting user research, competitive analysis, and feature roadmap development, resulting in 35% improvement in user retention through 15+ data-informed A/B tests
- Manage cross-functional team of 5+ engineers and designers by establishing coding standards, conducting code reviews, and implementing CI/CD automation with GitHub Actions/Fastlane, which reduced release cycle time by 60%
- Define and track product KPIs (DAU, retention, conversion rates) using Firebase Analytics and Mixpanel, conducting user feedback sessions that validated feature hypotheses and drove strategic product decisions
- Collaborate with UX designers to create wireframes and prototypes in Figma, translating 50+ business requirements into detailed technical specifications and user stories that aligned engineering deliverables with business goals

Full-Stack Engineer | ProDG | *January 2025 - October 2025*

- Architected and shipped Message Heard mobile applications for iOS/Android using Flutter with GetX state management and clean MVC architecture, achieving 95% code reusability across platforms and reducing development time by 40% compared to native approach
- Built SME Marketplace for VGG Group using React, Next.js, and TypeScript, enabling 500+ SMEs to process transactions and track sales analytics, resulting in \$2M+ GMV in first 6 months
- Developed Portfolio Indexing System for VGG Group with React and RESTful APIs, providing real-time tracking and analytics that reduced manual reporting time by 80% for institutional clients managing \$10M+ portfolios
- Led UI/UX redesign for UBA and Standard Bank digital banking platforms using component-driven React architecture, improving WCAG accessibility compliance and achieving 40% faster page load times that increased user engagement by 25%
- Developed DANI (Digital AI Network Intelligence) Python-based analytics platform with Next.js frontend, aggregating network data from 1,000+ sources to deliver actionable insights that reduced network downtime by 30%
- Executed Hodari platform redesign by migrating legacy frontend to Next.js/TypeScript with SSR and API optimization, resulting in 3x organic traffic growth and 50% improvement in conversion rates
- Delivered 8+ responsive web applications with mobile-first design, achieving Lighthouse scores of 90+ and cross-browser compatibility across all client projects serving 100,000+ combined users

Software Engineer | Savannah Technologies (UK) | *March 2023 - February 2025*

- Designed and implemented production-grade RESTful APIs and microservices using Laravel (PHP) and Node.js, handling 100,000+ daily transactions with 99.9% uptime, resulting in zero critical outages over 2-year period
- Integrated 8+ payment gateway systems (Stripe, PayPal, local providers) with PCI-DSS compliance and fraud detection algorithms, processing \$500K+ monthly transaction volume with zero security incidents and 99.8% transaction success rate
- Optimized PostgreSQL and MySQL database schemas for high-volume financial transactions through indexing and caching strategies, reducing query response times by 70% and enabling real-time analytics dashboards serving 1,000+ daily users
- Developed Python automation scripts for data extraction and fraud detection that eliminated 20+ hours/week of manual operations, improving fraud detection accuracy by 45% through pattern recognition algorithms
- Built and maintained 15+ client WordPress sites with custom themes and plugins, implementing SEO best practices and performance optimization that increased average organic traffic by 150% and page speed scores to 90+

- Architected cloud infrastructure on Google Cloud Platform using Cloud Functions and Cloud Run, implementing monitoring with Stackdriver that reduced incident response time by 60% through proactive alerting
- Collaborated with DevOps team to containerize applications using Docker and establish CI/CD pipelines with GitLab CI, implementing blue-green deployment strategies that achieved zero-downtime releases across 20+ production deployments

Mobile Application Developer (Flutter) | MyZola | March 2022 - October 2024

- Owned complete mobile application development lifecycle for Flutter app from concept to production deployment, growing user base to 5,000+ users and achieving 4.5+ App Store rating through iterative improvements based on user feedback
- Architected scalable Flutter application using Provider state management and clean architecture principles, creating modular feature-based project structure that improved code maintainability and enabled 3+ developers to work concurrently without conflicts
- Designed comprehensive UI/UX system in Figma and created reusable widget library of 30+ custom components, ensuring brand-consistent design language that reduced UI development time by 50% across new features
- Integrated Flutter frontend with Laravel REST APIs using efficient caching strategies (Hive/SharedPreferences) and offline-first architecture, enabling app functionality in low-connectivity environments and reducing API calls by 60%
- Implemented biometric authentication, push notifications (FCM), deep linking, and in-app purchases, resulting in 40% increase in user engagement and 25% improvement in conversion rates for premium features
- Established mobile development best practices including unit/widget/integration testing achieving 80% code coverage, implementing Git branching strategies, and configuring automated build/deployment pipelines using Codemagic CI/CD that reduced manual release effort by 90%
- Drove continuous improvement through A/B testing and crash analytics (Firebase Crashlytics), reducing app crash rate from 2.5% to 0.3% and improving app performance scores by 35% through Flutter DevTools profiling

Mobile Development Intern | Uzapoint | June 2021 - February 2022

- Developed mobile application from ground up using Flutter, implementing user authentication, API integration, and data persistence features that enabled 1,000+ customers to access services on-the-go
- Collaborated in Agile Scrum environment by participating in daily standups, sprint planning, and code reviews, learning industry-standard development workflows and version control best practices with Git
- Integrated backend REST APIs with asynchronous data fetching and error handling, optimizing network calls for performance across varying connectivity conditions and reducing API response handling time by 40%

EDUCATION

Bachelor of Science in Informatics and Computer Science (First Class Honours)

Strathmore University | 2021 - 2025

Deans List (2022-2023, 2023-2024) | SUAFI Hackathon Winner (2024) | GPA: 3.8/4.0

TECHNICAL PROJECTS & ACHIEVEMENTS

- **Message Heard Platform:** Led development of AI-powered podcast visualization tool processing 50,000+ podcast episodes monthly, implementing computer vision algorithms, audio waveform analysis, and automated video generation pipeline that resulted in Amazon acquisition
- **Mobile App Portfolio:** Delivered 5+ production Flutter applications across fintech, e-commerce, and media sectors with combined 15,000+ downloads, 4.5+ average rating, and 99.7% crash-free rate
- **Payment Integration Expertise:** Successfully integrated 8+ payment gateways across different platforms, processing \$500K+ monthly transaction volume with zero security incidents and 99.8% transaction success rate
- **Open Source Contributions:** Active contributor to Flutter community packages and mobile development tools on GitHub, with 500+ stars across repositories

PROFESSIONAL REFERENCES

Mr. Wayne Asava - Director, ProDG

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Mr. Shoaib - Director, Savannah Technologies (UK)

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Professor Christine Gichure - Academic Mentor, Strathmore University

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