BENSIDNEY GITHU NDUNG'U

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Professional Summary

Software Engineer and product builder focused on turning real-world problems into clear, usable digital products. Experience spans travel technology, software quality, product improvement, and technical content, supported by independent projects in education, public finance, agriculture, and event management. Known for researching the problem before choosing the solution and for communicating technical work in practical, human terms.

Education

Bsc. Software Engineering – University of Eastern Africa, Baraton *Kapsabet, Kenya* **Sep 2022–Dec 2026**

- Expected Graduation: December 2026 | Relevant coursework: Data Structures, Web & Distributed Systems, RESTful APIs, Cloud Computing

Skills

- **Languages & Runtime**: C#, TypeScript, JavaScript(ES6+), Django, Ruby on Rails
- **Frontend**: React, Next.js, Tailwind CSS, Tanstack Start
- **Backend**: Node.js, Express.js, Nest.js, REST APIs,
- **Databases**: PostgreSQL, MySQL, MongoDB
- **DevOps & Tools:** Docker, Git/GitHub, CI/CD, Jest, AWS, Postman
- **Methodologies**: Agile, API Design, Test Driven Development

Experience

Software Developer-Visatile *Nairobi, Kenya* **Aug 2026- To date**

- Contribute to the ongoing development, quality, and improvement of a travel and lifestyle platform for discovering and booking local activities and group trips across Africa.
- Support product reliability by reviewing user journeys, identifying and documenting issues, and contributing to appropriate fixes.
- Improve the clarity and discoverability of public-facing content through SEO-focused content optimization.

Engineering Intern-The Artisans Company *Nairobi, Kenya* **May 2026-July 2026**

- Contributed to the development and improvement of multiple digital projects across different application requirements and delivery stages.
- Collaborated with the engineering team to maintain features, investigate issues, and support product delivery.

Software Developer -Teach2Give *Laikipia, Kenya* **May 2025-Jul 2025**

- Developed and deployed full-stack applications using React, TypeScript, Express.js, and PostgreSQL, ensuring responsive design and efficient database management.
- Implemented secure authentication with JWT, wrote unit tests with Jest, and optimized code quality with CI/CD pipelines.
- Collaborated in agile teams, contributing to UI/UX design in Figma, API integration, and database modeling.
- Gained hands-on experience in frontend, backend, and DevOps workflows, enhancing software reliability and scalability.

Projects

- **Bitsa Club Website** | GitHub | Live Link

  Tech Stack: React.js, TypeScript, Tailwind CSS, Node.js, Express.js, DrizzleORM, PostgreSQL

  - Designed and developed the BITSA web platform to centralize student engagement, featuring role-based access for students, leaders, and administrators, integrated AI-assisted support, event management, leadership history, and community connectivity to enhance collaboration and information sharing.

Smarta Shauri | GitHub | Live Link

Tech Stack: React.js, Django Rest Framework, MySQL

- Created a fourth-year senior project for Kenyan secondary-school learners under CBC/CBE, connecting academic evidence and RIASEC interests with Grade 10 pathways, subject combinations, schools, and learner plans. Designed distinct journeys for students, counselors, parents, school administrators, and system administrators, with sourced education records, counselor review, parent visibility, and auditable administration.

- **TicKenya—Event Ticketing & Venue Booking System** | GitHub | Live Link

  Tech-Stack : React.js, TypeScript, Tailwind CSS, Redux Toolkit, Node.js, Express.js, DrizzleORM, PostgreSQL

  - Developed a responsive, full-stack Event Ticketing and Venue Booking System using modular React architecture, secure JWT-based APIs, real-time data fetching via RTK Query, M-Pesa integration, dynamic role-based dashboards, and optimized user experience with image uploads, PDF report generation, and robust form validation.

- **BursaPay—Student Bursary Disbursement & Fraud Detection Platform** | GitHub | Live Link

  Tech-Stack : React.js, TypeScript, Tailwind CSS, Redux Toolkit, Node.js, Express.js, DrizzleORM, PostgreSQL

  - Developed a full-stack bursary disbursement platform targeting CDF and county fund fraud in Kenya, featuring a multi-tier fraud detection engine (ghost student detection, duplicate national ID checks, admin velocity monitoring, and phone reuse flagging) with additive risk scoring, national ID verification with Jaro-Winkler fuzzy name matching, role-based dashboards for students, fund administrators, and auditors, automated M-Pesa B2C payouts on application clearance, real-time application status tracking, and a public transparency ledger for all disbursements.

Certificate/Training/Recognition

- Software Engineering Program – Teach2Give (2025)
- 5th place among 100 teams, Kenya AI Challenge 2026, Main Mercy Corps AgriFin Track.
- BSc. Software Engineering –University of Eastern Africa, Baraton (Awaiting Graduation in December 2026)