

Baraka Francis Nampellah

Full-Stack Software Engineer

Location: Dar es Salaam, Tanzania

Direct Contact: +255 742 147 567 | Bnampellah1@gmail.com

GitHub: github.com/Francisnampellah

LinkedIn: <https://www.linkedin.com/in/baraka-nampellah-b1700b144/>

PROFESSIONAL SUMMARY

Full-Stack Software Engineer (+2 year experience) with experience developing backend microservices, mobile applications, and web interfaces using NestJS, Django, React, React Native, and Flutter. Capable of handling features across the entire lifecycle, from database design to UI deployment. Experienced in both team environments and independent freelance projects, including work with cloud deployments, security tooling, and blockchain networks. Currently building mobile systems for livestock tracking and retail management, while expanding technical knowledge in workflow automation and agentic AI.

Technical Skills

- **Backend & APIs:** NestJS (TypeScript), Django REST Framework, Express.js, RESTful API design, microservices, authentication, and role-based access control (RBAC).
- **Databases:** PostgreSQL, MySQL, Django ORM, and query optimization.
- **Mobile & Frontend:** Flutter, React Native, React.js, Next.js, Tailwind CSS, Redux/Context API, and responsive UI layout.
- **Cloud & DevOps:** AWS (EC2), Docker, CI/CD (Vercel, Netlify, DigitalOcean), Git, Postman, and Figma.
- **Other Technologies:** Agentic AI development (foundations), Hyperledger Fabric (chaincode), and Three.js.

PROFESSIONAL EXPERIENCE

Full-Stack Mobile Developer

Afya Ya Mnyama Digital (Tanzania Based)

March 2026 – Present

- **Application Maintenance & Upgrades:** Maintained and updated the existing Mnyama Check Flutter application, implementing new features including subscription management, a notification system, and a refreshed user interface.
- **Internal App Development:** Developed Mnyama Collector, a secondary mobile application used by the field team to collect and log animal disease data intended for AI training.

- **Feature Development:** Added an in-app agroveter management and POS system to handle inventory tracking, sales, and payment flows currently piloting across 5 outlets.
- **API Integration:** Collaborated with the backend team to integrate REST APIs, ensuring real-time sync for animal health and activity data across 200+ tracked profiles to save manual entry time.

Software Engineer

SmartINNO Engineering Company (Tanzania Based)

2025

- **Backend & API Development:** Developed 6 backend microservices and API modules using NestJS (TypeScript) and Django to support daily operations across internal business domains.
- **Team Coordination:** Acted as Scrum Master for a team of 6 engineers, handling agile ceremonies and backlog grooming to steady sprint delivery timelines.
- **Feature & Dashboard Implementation:** Built an internal video conferencing microservice and created a React-based dashboard to display core operational metrics for leadership.
- **Blockchain Integration:** Contributed to a permissioned blockchain network using Hyperledger Fabric, writing chaincode to handle transaction validation logic.
- **Security & Database Optimization:** Implemented role-based access control (RBAC) across 15+ REST endpoints and optimized PostgreSQL database queries through Django ORM to improve response times.
- **Documentation:** Maintained codebase documentation and onboarding guides to help new engineers get up to speed more efficiently.

Frontend Engineer

BeginnerTech Company (Japan-Based)

2024 - Feb 2026

- **UI Development:** Developed and maintained responsive React.js components, focusing on clean and reusable frontend architecture.
- **API Integration:** Collaborated with backend teams to integrate RESTful APIs and handle data flow on the client side.
- **Cross-Cultural Collaboration:** Worked closely with Japanese team members in a remote environment, adapting to cross-cultural workflows and communication across time zone.

Freelance & Independent Engagements

2025

- **DevOps Engineer:** Resolved approximately 8 critical production issues on AWS, and configured Docker and AWS deployment configurations ahead of launch to minimize post-launch incidents. (Q4 2025)
- **Mobile Developer:** Developed the React Native frontend for a multi-vendor marketplace application as the sole mobile developer, collaborating with a backend engineer on database schema design. (Q3–Q4 2025)
- **Full-Stack Developer (Security Platform):** Built a web application that integrated OWASP-based scanning tools, allowing clients to scan target websites and identify over 10 vulnerability classes. (Q2 2025)
- **Frontend Developer (3D Visualization):** Created a Three.js web experience where scanning a QR code loaded an interactive 3D view of an item for a 50+ item virtual catalog. (Q2 2025)

EDUCATION

- **Bachelor of Engineering in Computer Engineering**

Dar es Salaam Institute of Technology (DIT)

| 2020 – 2024

Final Year Project: Designed and built a blockchain-based system, implementing the core chain logic, data integrity verification, and a frontend client.

- **Ordinary Diploma in Telecommunication and Electronics Engineering**

Arusha Technical College (ATC)

| 2017 – 2020

Coursework and practical training in electronics engineering and foundational telecommunication principles.

- **Certifications & Continuous Learning**

AI Agents Fundamentals, v2 – Frontend Masters (Instructor: Scott Moss)

- Focused on the core concepts and practical development of agentic AI applications.

Backend System Design – Frontend Masters (Instructor: Jem Young, Netflix)

- Focused on distributed system design, scalability, data storage strategies, and analyzing architectural tradeoffs.

REFERENCES

Florence Mushi

Manager AT SMARTINNO.

Email: mushiflorence0@gmail.com,

Phone: [255 654 792 867](tel:255654792867),

Donald Mwakatoga

Full stack Developer AT AMANI LAND.

Email: dondonald971@gmail.com ,

Phone: [255 672 426 411](tel:255672426411),

Godfrey Sunday

Telecommunication Engineer AT TTCL.

Email: godfreysunday11@gmail.com ,

Phone: [255 738 260 965](tel:255738260965),