



Karanja Benjamin Njoroge

Professional Software Engineer

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OVERVIEW

As a highly skilled full-stack software developer with a proven ability to adapt and thrive in fast-paced environments. With a strong foundation in software engineering, including both professional and freelance experience, I bring a unique blend of technical expertise and creative problem-solving. My work spans various industries, where I have successfully delivered web and mobile applications, managed cross-functional teams, and continuously improved software solutions. I am particularly passionate about collaborating on international projects, and my experience in managing development processes, combined with my excellent communication skills, positions me well to contribute effectively to your initiatives.

Degrees and Majors

2021.08 – 2025.04	Bachelor of Science in Software Engineering Murang'a University Of Technology Pending
October 18, 2023	Introduction to Data Science Issued by Cisco https://www.credly.com/badges/9ac4a9cf-57a6-4468-93f8-d00a132e5c58
October 21, 2023	Introduction to IoT Issued by Cisco https://www.credly.com/badges/231057f2-8c67-4211-a725-2bf6ac766fff
February 07, 2024	Operating Systems Basics Issued by Cisco https://www.credly.com/badges/99bc5645-a771-4d90-9058-2ccd6325bed9

April 06, 2024

Networking Devices and Initial Configuration

Issued by [Cisco](#)

<https://www.credly.com/badges/6017b48c-81db-42d0-ba58-fbd40b20df88>

2024.04 – 2024.07 Harmosoft Intern and Software Developer Project: HBS (Book Store) Project Duration: (4 months) Role: Lead Developer (Intern)	Main Functionalities & Technologies Used: Functionalities: <ul style="list-style-type: none">➤ Online book catalog with search and filtering options➤ User authentication and role-based access control➤ Shopping cart and order management system➤ Payment gateway integration for seamless transactions➤ Admin dashboard for inventory and sales tracking
Technologies Used: Frontend: Next.js (TypeScript), Tailwind CSS Backend: Django REST Framework (DRF), PostgreSQL Authentication: Django Allauth Deployment & DevOps: Docker, AWS (EC2 & S3), GitHub Actions for CI/CD	
Achievements: <ul style="list-style-type: none">➤ Led the development lifecycle from planning to deployment, ensuring timely delivery.➤ Collaborated with cross-functional teams to enhance performance and system security.➤ Integrated modern coding best practices to optimize functionality and improve maintainability.➤ Reduced page load time by 30% through efficient API design and frontend optimizations.➤ Implemented CI/CD pipelines, reducing deployment time by 50%.	
GitHub Repository: 🔗 HBS (Book Store) Project Repo	


2025.01 – 2025.01 Tovu Sacco Admin Dashboard & Mobile App Full-Stack Developer Project: Tovu Sacco Admin Dashboard & Mobile Application (Duration: 1 month) Role: Full-Stack Developer	Main Functionalities & Technologies Used: Functionalities: <ul style="list-style-type: none">➤ Comprehensive admin dashboard for managing users, loans, investments, transactions, and financial operations➤ Secure authentication system for role-based access➤ Interactive financial data visualization and real-time insights
Technologies Used: Frontend: Next.js (TypeScript), Tailwind CSS, shadcn/ui	

Backend: Django REST Framework (DRF), PostgreSQL Mobile App: React Native (Expo Router) Security & Deployment: Django Allauth, AWS, Docker	➤ Mobile app for users to access financial services on the go
Achievements: <ul style="list-style-type: none"> • Successfully developed and deployed the system within a short timeline. • Ensured secure authentication mechanisms and real-time data synchronization. • Improved user experience with a clean UI and efficient API responses. GitHub Repository: 🔗 Tovu Sacco Repo	

2024.07 – 2024.07 Community Guardian (Mobile App) – Mobile App Developer Project: Community Guardian Mobile App (Duration: 1 month) Role: Mobile App Developer	Main Functionalities & Technologies Used: Functionalities: <ul style="list-style-type: none"> ➤ Anonymous reporting system for crime prevention ➤ Emergency alert system for real-time notifications ➤ Direct updates from local law enforcement agencies
Technologies Used: Mobile App: React Native (Expo) Backend: Django REST Framework (DRF), PostgreSQL Security: End-to-end encryption for secure communication	
Achievements: <ul style="list-style-type: none"> • Designed an intuitive and secure platform for community engagement. • Ensured privacy protection for users reporting incidents. GitHub Repository: 🔗 Community Guardian Repo	

2024.08 – 2024.08 Immunity Shield (Intrusion Detection System) – AI Developer Project: Immunity Shield (Duration: 1 month) Role: AI Developer	Main Functionalities & Technologies Used: Functionalities: <ul style="list-style-type: none"> ➤ Real-time anomaly detection for cybersecurity threats ➤ Automated response mechanism to isolate potential threats ➤ Machine learning models for intrusion pattern recognition
Technologies Used: AI & ML: Python (Scikit-learn, TensorFlow) Backend: Django REST Framework (DRF)	

Security & Deployment: Docker, AWS Lambda	
Achievements: <ul style="list-style-type: none"> Developed an AI-driven IDS with 85% accuracy in detecting threats. Integrated real-time alerts and automated security measures. 	
GitHub Repository: 🔗 Immunity Shield Repo	

2024.09 – 2024.09 Carlgnition (Prototype for Vehicle Security) – IoT Developer Project: Carlgnition (Duration: 1 month) Role: IoT Developer	Main Functionalities & Technologies Used: Functionalities: <ul style="list-style-type: none">➤ Remote vehicle start and stop functionality➤ Encrypted communication channels for security➤ Mobile app integration for user-friendly control
Technologies Used: IoT Hardware: Raspberry Pi, Arduino Software: Python (Flask), MQTT Protocol Mobile App: React Native (Expo)	
Achievements: <ul style="list-style-type: none">• Successfully developed a prototype for vehicle automation.• Implemented secure encrypted communication channels for safety. GitHub Repository:  Carlgnition Repo	

<div>2024.12 – 2025.01</div> <div>Swift Traders (Mobile App) – Mobile App Developer</div> <div>Project: Swift Traders Mobile App (Duration: 2 months)</div> <div>Role: Mobile App Developer</div>	<div>Main Functionalities & Technologies Used:</div> <div>Functionalities:</div> <div><div>➤ Interactive trading lessons for financial literacy</div><div>➤ Simulated trading environment for hands-on learning</div><div>➤ User progress tracking and personalized recommendations</div></div>
<div>Technologies Used:</div> <div>Mobile App: React Native (Expo)</div> <div>Backend: Django REST Framework (DRF), PostgreSQL</div> <div>Analytics: Firebase, Google Charts</div>	
<div>Achievements:</div> <div><div>• Developed a user-friendly educational app for financial literacy.</div><div>• Integrated a real-time trading simulator to enhance learning.</div></div> <div>GitHub Repository: 🔗 Swift Traders Repo</div>	

Technical Skills

- Programming Languages: Python, JavaScript, TypeScript, SQL, C++
- Web Development: Django (REST Framework), React, Next.js, HTML, CSS, Tailwind CSS, Bootstrap, Express.js
- Mobile Development: React Native, Expo Router
- Database Management: MySQL Workbench, PostgreSQL (PgAdmin), SQLite
- API Development & Integration: RESTful APIs, JSON
- Tools & Technologies: Visual Studio Code, Apache, Nginx, Docker, Git & GitHub, Postman, Node.js
- Cloud & Deployment: Netlify, Vercel, Heroku, Digital Ocean, Python Anywhere, Infinity Free
- Operating Systems: Windows, Ubuntu (Linux), WSL
- Version Control: Git, GitHub, GitLab
- CI/CD & DevOps: Docker Compose, GitHub Actions (if applicable)
- Other Skills: Figma, Canva, CorelDRAW, Postman
- Security & Networking: Basic Cybersecurity Concepts, Intrusion Detection Systems, Isolation Forest Algorithm, Networking Essentials
- Machine Learning (Basic): Scikit-learn, Data Analysis, Introduction to AI