Victor Kimathi

Software Engineer

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🌐 https://github.com/VictorKimathi

🌐 www.linkedin.com/in/victor-kimathi-517501267

🌐 Portfolio: https://victorkimathi.vercel.app/

Summary

Passionate Full Stack AI Engineer and tech enthusiast with a knack for problem-solving and developing innovative solutions. Experienced in building scalable web and mobile applications, leveraging technologies like React, Flutter, and AI-driven tools like langchain. Currently building StudyBae mobile application. Flexible with time zone communications and driven to create impactful software that changes the world. Adheres to a disciplined software development process emphasizing simplicity, automation, and security.Its not about the code but its about the problem you are trying to solve .

My Software Development Philosophy

Rules of Process: Build Faster, Smarter, and Scalable

- **Radical Simplification**: Delete before optimizing.
- **Test-Driven Development (TDD)**: Write test for your code ;
- **Modularity & Reusability**: Components over monoliths.
- **Automation-First**: If it's manual, it's a bug.
- **Living Documentation**: Docs in Git, not wikis.

Skills

- **Languages & Frameworks**: JavaScript, TypeScript, Python, React,Next.js, Flutter, Spring Boot,Lang Chain,project management
- **Tools & Platforms**: AWS, MongoDB, Streamlit, Gemini, Tailwind CSS, Docker,, Postman
- **Other**: Full Stack Development, AI Integration,Mobile App Development, Test-Driven Development, CI/CD with github actions, Agile Methodologies,Git,
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Work Experience

Founder StudyBae mobile application

Transform the way you study with StudyBae, the powerful AI-powered study assistant that brings together all your academic resources in one intuitive app.

https://mystudybae.vercel.app/

Founder Logisticx mobile application

Currently in development

https://fmattyev.manus.space/

LogistiX is conceived as a technology platform designed to address the significant challenges faced by Small and Medium Enterprises (SMEs) in Kenya's burgeoning e-commerce sector, specifically concerning last-mile delivery. High costs, unreliability, lack of transparency, and difficulties in managing multiple courier relationships hinder SME growth. LogistiX aims to provide an affordable, reliable, and easy-to-use delivery aggregation service, connecting merchants with a network of independent couriers through a unified platform.

Technical Lead, Egerton University Computer Science Association

Present

- Leading technical projects and mentoring students in software development.
- Organizing workshops and hackathons to foster innovation and collaboration.
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Mobile App Development Intern, CodeSoft

Past

- Designed and developed an e-commerce mobile app for agricultural products in Meru using React Native.
- Delivered cross-platform solutions for iOS and Android, enhancing user accessibility.

Engineer Intern, HNG Internship

Past

- Contributed to a web-based platform using React.js, improving interactivity and user experience.
- Collaborated with a team to implement responsive and scalable features.

Projects

Shebang

Real Estate Application

- Building a modern real estate platform using Next.js, TypeScript, Tailwind CSS, and GSAP.
- Features include property listings and user-friendly interfaces.
    🔗 https://projects-realestate-ebon.vercel.app/

StudyBae

University Revision App

- Developed a mobile app providing revision materials for university students using Flutter, Spring Boot, MongoDB, and AWS.
    🔗 https://mystudybae.vercel.app/

Medical AI

AI-Powered Medical Image Analysis

- Created a web app for analyzing medical images using Python, Streamlit, and Gemini AI.
    🔗 https://medicalaiassistant-faostpb3lhevvvu2vkmi2v.streamlit.app/

Kili Connect

Community Services App

- Built a mobile app for Kilimani citizens to access essential services using React Native.
  🔗 https://drive.google.com/drive/folders/16V0q9nMjMq-mBtXshfQLPRo8BzrZgs1H

Finance AI

Financial Management Platform

- Developed a web app for managing finances using Next.js, TypeScript, and Tailwind CSS.
  🔗 https://mai-lyart.vercel.app/

DeoxFoods

Food Delivery Mobile App

- Created a food delivery app using Flutter, Spring Boot, MongoDB, and AWS.
  🔗 https://victorkimathi.vercel.app/

Education

Bachelor of Science in Computer Science
Egerton University,

Development Process

Victor's Software Development Rules of Process
A structured, principle-driven approach to building scalable, secure, and maintainable software.

Core Principles

- **Radical Simplification**: Delete before optimizing.
- **Test-Driven Development (TDD)**: Code that self-validates.
- **Modularity & Reusability**: Components over monoliths.
- **Automation-First**: If it's manual, it's a bug.
- **Living Documentation**: Docs in Git, not wikis.

Phases

1. **Project Kickoff**: Align stakeholders, define metrics, and draft a 1-pager charter.

- Rule: "If a requirement doesn't have a metric, delete it."
2. **Requirements**: Map user stories, prioritize with MoSCoW, validate with mockups.
   - Rule: Delete 30% of requirements after review.
3. **Design**: Record trade-offs in ADRs, design DB schemas, and finalize API specs.
   - Rule: If a component isn't load-tested, it doesn't exist.
4. **Implementation**: Use TDD, set up CI/CD, and enforce 80% test coverage.
   - Motto: If it's not automated, it's broken.
5. **Testing**: Follow the test pyramid (unit, integration, E2E) and automate 80% of tests.
6. **Deployment**: Use blue-green deployments and feature flags for zero downtime.
   - Rule: If rollback isn't one command, it's a trap.
7. **Maintenance**: Schedule tech debt sprints and refactor iteratively.
8. **User-Centered Validation**: Conduct usability testing and log UX metrics.
   - Rule: "The best feedback is observed, not asked for."
9. **Security by Design**: Implement OAuth2, manage secrets, and perform threat modeling.
   - Rule: Security isn't a phase—it's a mindset.
10. **Operating Model**: Define RACI, assign ownership, and write onboarding guides.
11. **Continuous Feedback & KPIs**: Track lead time, bug rate, and NPS.
12. **Knowledge Transfer**: Maintain READMEs, runbooks, and Git-based docs.
13. **Advanced Excellence**: Ensure WCAG accessibility, internationalization, and compliance.

CIA Evaluation Template

- **Confidentiality**: Encrypt data, restrict access, and test for leaks.
- **Integrity**: Log changes, validate inputs, and use hashes to prevent tampering.
- **Availability**: Monitor uptime, implement backups, and ensure scalability.

Contact

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Interested in collaborating on a project? Let's connect and build something amazing together!