


# Victor Kimathi

## Software Engineer

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 GitHub |  Twitter |  LinkedIn

 Portfolio: <https://victorkimathi.vercel.app/>

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## 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 .

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## 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.
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## 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.
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## 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://medicaiassistant-faostpb3lhevavu2vkmi2v.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/>
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## Education

### **Bachelor of Science in Computer Science**

Egerton University,

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## 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.
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## Contact

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