Fredrick Kitonyi Kiio

Software Engineering Student | Full Stack Developer | Tech Innovator

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Location: Nairobi, Kenya

OBJECTIVE

Passionate Software Engineering student at Zetech University with strong foundation from ICT Diploma at ICS Technical College. Committed to building innovative solutions and contributing to cutting-edge software projects with expertise in full-stack development and emerging technologies.

EDUCATION

Diploma in Software Engineering - Zetech University - Nairobi Campus

2023 - 2025 (Expected) | Current GPA: 3.9/4.0

Comprehensive Software Engineering program focusing on modern development practices, software architecture, and emerging technologies.

Relevant Coursework:

Object-Oriented Programming (Java, C++), Web Development (React, Node.js, PHP), Software Engineering Principles, Database Systems & Management, Data Structures & Algorithms, Mobile Application Development, Software Testing & Quality Assurance, Cloud Computing & DevOps, Artificial Intelligence & Machine Learning, Cybersecurity in Software Development, Project Management & Agile Methodologies, Human-Computer Interaction

Diploma in ICT - ICS Technical College - Nairobi

2022 - 2023 | GPA: 3.8/4.0

Comprehensive ICT program covering essential information technology skills, computer systems, and software development fundamentals.

Relevant Coursework:

Computer Fundamentals & Hardware, Programming Basics (Java, Python), Web Development Fundamentals, Database Design & SQL, Networking Essentials, System Administration, Microsoft Office Suite, Digital Literacy & Ethics, Technical Communication, IT Project Management

Kenya Certificate of Secondary Education (KCSE) - Katelembo Centre of Excellence Boys High School

2015 - 2018

Completed secondary education with focus on Mathematics, Computer Studies, and Physics.

Kenya Certificate of Primary Education (KCPE) - Machakos Primary School

2007 - 2014

Completed primary education with excellent performance in core subjects including Mathematics, English, Science, and Kiswahili.

PROFESSIONAL EXPERIENCE

Freelance Web Developer - Self-Employed

2023 - Present

Developed responsive websites and web applications for various clients using modern technologies like React, JavaScript, and CSS frameworks.

Key Achievements:

• Built 15+ responsive websites for local businesses

• Improved client website loading speeds by 40%

• Maintained 100% client satisfaction rate

Software Development Intern - Zetech University Innovation Hub

2024 (4 months)

Collaborated with faculty and fellow students on software development projects, contributing to university digital transformation initiatives.

Key Achievements:

• Developed student portal enhancement features using React and Node.js

• Contributed to 3 open-source projects hosted by Zetech GitHub

• Led a team of 5 students in hackathon, winning 1st place

• Mentored 10+ junior students in programming fundamentals

Cyber Cafe Assistant - Community Cyber Cafe

2023 - 2024

Assisted customers with computer usage, printing services, and internet access while maintaining equipment.

Key Achievements:

• Helped 50+ customers daily with digital services

• Maintained 99% uptime for all systems

• Implemented security protocols to prevent malware

ACADEMIC & PERSONAL PROJECTS

Portfolio Website (React, TypeScript, Tailwind CSS)

Personal portfolio showcasing projects and skills with responsive design and modern animations.

Zetech Student Portal Enhancement (React, Node.js, PostgreSQL, Material-UI)

Enhanced the university student portal with modern UI/UX and additional features for better student experience.

Features: Real-time notifications, grade analytics, course planning, mobile responsiveness

Campus Event Management System (Java Spring Boot, MySQL, Angular)

Full-stack application for managing Zetech University campus events, bookings, and attendee management.

Features: Event scheduling, RSVP system, automated notifications, reporting dashboard

Cybersecurity Awareness App (React Native, Firebase)

Mobile app educating users about cybersecurity best practices and threat awareness.

Features: Interactive quizzes, security tips, threat notifications

TECHNICAL SKILLS

Programming: Java, JavaScript, Python, C++, TypeScript, PHP, HTML5, CSS3, SQL

Frameworks: React, Angular, Spring Boot, Node.js, Express.js, Django, Bootstrap, Tailwind CSS

Databases: PostgreSQL, MySQL, MongoDB, Oracle Database, Firebase, Redis

Cloud Platforms: AWS (EC2, S3, Lambda), Google Cloud Platform, Microsoft Azure, Heroku

Tools: Git, Docker, Kubernetes, Jenkins, VS Code, IntelliJ IDEA, Postman, Jira

Methodologies: Agile/Scrum, DevOps, CI/CD, Test-Driven Development, Object-Oriented Design

Software Engineering: Software Architecture, Design Patterns, Code Review, Version Control, API Development

ACHIEVEMENTS & AWARDS

• Dean's List - All Semesters (2023-2024) - Zetech University

• Zetech Innovation Challenge Winner - Best Software Solution 2024

• Google Developer Student Club - Lead Developer (Zetech Chapter)

• Kenya University Software Engineering Competition - 1st Place

• Zetech Hackathon 2024 - Grand Prize Winner

• Academic Excellence Award - Software Engineering Department

• Peer Tutor - Advanced Programming Courses at Zetech

• Volunteer Developer - Zetech Alumni Association Portal

CERTIFICATIONS

• Oracle Certified Associate - Java SE 8 Programmer

• AWS Certified Cloud Practitioner

• Google Cloud Professional - Cloud Developer

• Microsoft Azure Fundamentals (AZ-900)

• Scrum Master Certified (SMC) - Scrum Study

• Full Stack Web Development - Zetech University Certificate

• Advanced React Development - Meta Blueprint

• Machine Learning Foundations - IBM Certificate

• Cybersecurity Essentials - Cisco Networking Academy

• Git & GitHub Mastery - Zetech Professional Development