

PAULINA WAMBUA

Full-Stack Software Engineer

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 Remote • Flexible across EMEA & US time zones

 on-site • Nairobi, Kenya | [LinkedIn](#) | [GitHub](#)

Professional Summary

Dynamic Full-Stack Software Engineer with proven expertise in building scalable applications and integrating AI-driven solutions. Adept at delivering end-to-end software products using modern frameworks, cloud services, and DevOps practices. Combines technical depth with agile collaboration, mentoring, and stakeholder engagement. Recognized for driving innovation in enterprise systems, optimizing performance, and ensuring exceptional user experiences.

Core Competencies: Full-Stack Development | Cloud Architecture | DevOps | Quality Assurance | Agile Leadership | AI Integration

Technical Expertise

Frontend: React.js, Angular, TypeScript, JavaScript (ES6+), HTML5, CSS3, Responsive Design

Backend: Node.js, Express

Languages: JavaScript, TypeScript, Python, Java, C

Databases: PostgreSQL, MySQL, MongoDB

Cloud & DevOps: AWS (EC2, S3), Docker, CI/CD, GitHub Actions, Vercel

Testing: Jest, Unit & Integration Testing, TDD

Tools: Git, VS Code, Postman, JIRA

Methodologies: Agile (Scrum, Kanban), Code Reviews, Pair Programming

Key Projects

Fahari AI Salon-Booking System

React.js | Express.js | PostgreSQL | Prisma ORM | AI Integration

- Developed a regional salon booking platform as a final year project.
- Integrated AI chat interface to guide users through booking workflows.

- Implemented secure authentication and real-time availability conflict checks.
- Managed M-Pesa STK push payments and deployed with PostgreSQL backend.

SkillMatch – Enterprise Talent Matching Platform

Angular / Express.js / PostgreSQL / AWS

- Architected a talent-matching system serving 500+ users.
- Built scalable REST APIs with advanced filtering, sorting, and pagination.
- Integrated real-time data sync and optimized queries by 40% faster performance.
- Automated CI/CD deployment via AWS (S3 & EC2).

Digital Library Management System

TypeScript / Express.js / PostgreSQL

- Designed role-based access with secure JWT authentication.
- Built intuitive UI with seamless CRUD workflows.
- Applied automated testing & responsive design for cross-device use.

Professional Experience

Software Engineer & QA Intern | Teach2Give

Feb 2025 – Apr 2025

- Contributed to back-end web development projects in an agile environment.
- Implemented automated testing (Jest), improving reliability by 30%.
- Led code refactoring for maintainability and performance.
- Participated in sprint ceremonies, reviews, and peer mentorship.

IT Systems Analyst Intern | Dedan Kimathi University IT Department

Jan 2024 – Mar 2024

- Supported system troubleshooting and network infrastructure.
 - Contributed to database optimization and web application development.
 - Delivered technical documentation and stakeholder reports.
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Education

Bachelor of Science in Computer Science

Dedan Kimathi University of Technology | *Expected 2026*

- **Coursework:** Data Structures & Algorithms, Software Engineering, Databases, Networks
 - **Activities:** Member, Stunners Hockey Team
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Certifications

- **JS AI Build-a-thon Badge** – Microsoft Americas Azure Team (2025)
 - **Career Essentials in Software Development** – Microsoft & LinkedIn
 - **Agile Project Management Professional** – Google (Coursera)
 - **Advanced Software Development** – Teach2Give
 - **Full-Stack Web Development** – Alison
 - **French DELF B1** – Alliance Française
 - **English Proficiency B2** – EF SET
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Additional Skills

- **Leadership & Efficiency:** Mentoring, cross-cultural collaboration, stakeholder management
- **Problem-Solving:** Analytical thinking, creative solutions, performance optimization
- **Professional Skills:** Fast learner, continuous improvement, teamwork