

# VINCENT WAMBUGU WAMBUI

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## CAREER OBJECTIVE

Dedicated and detail-oriented Full-Stack Software Engineer with extensive experience in building scalable SaaS platforms, payment integrations, and ICT/networking infrastructure. Proven ability to design, implement, and deploy production-ready web applications that solve real-world problems. Eager to contribute technical expertise, analytical thinking, and problem-solving abilities to dynamic software development environments.

## EDUCATION

**Bachelor of Science in Computer Science** | Kirinyaga University

Sep 2020 – Sep 2024

- Relevant Coursework: Computer Networks, Systems Administration, Database Management, Software Development, Network Security

**KCSE** | Gititu Secondary School | Jan 2015 – Nov 2018

**KCPE** | Stary Academy | Jan 2007 – Nov 2014

## TECHNICAL SKILLS

**Full-Stack Development:** JavaScript (ES6+), TypeScript, Node.js, React.js, Express.js, FastAPI (Python), REST APIs, JWT Authentication, OAuth 2.0

**Databases:** MongoDB (Prisma ORM), PostgreSQL, MySQL, SQL queries, schema design, data modeling, indexing

**Frontend:** HTML5, CSS3, Tailwind CSS, Shadcn/ui, React Router, FullCalendar, Responsive Design, DOM Manipulation

**Backend & APIs:** Node.js, Express.js, FastAPI, RESTful APIs, WebSockets, File Uploads (Multer), Error Handling, Middleware

**Payments & Integrations:** M-Pesa Daraja API (OAuth, STK Push, C2B), Payment Flow Automation, Webhook Handling

**DevOps & Deployment:** Git/GitHub, Docker, Render, Vercel, CI/CD Pipelines, Linux Server Management

**Networking & ICT:** LAN/WAN Setup, Router/Switch Configuration, Wireless Installation, System Administration (Windows/Linux), Firewall Setup, Network Troubleshooting

**Tools & Technologies:** VS Code, Postman, Wireshark, Packet Tracer, Vite, npm/npx, Prisma CLI, Remote Desktop Tools

## PROFESSIONAL EXPERIENCE & PROJECTS

### Dec 2024 – Feb 2025 | Summit Wheels – Car Rental Platform

Founder & Full-Stack Developer

- Built a full-stack car rental SaaS platform connecting vehicle owners with renters, featuring three distinct dashboards (Owner, Renter, Admin).
- Implemented FastAPI backend with Prisma ORM for MongoDB, handling complex relational data models for users, cars, and bookings.
- Developed React + TypeScript frontend with Vite, featuring responsive UI with Tailwind CSS and Shadcn/ui components.
- Engineered secure JWT-based authentication system with role-based access control (RBAC) for different user types.
- Implemented base64 image upload system for vehicle listings, supporting multiple images per car with validation and optimization.
- Built comprehensive booking engine with date validation, price calculation, conflict detection, and status management (pending, confirmed, completed, cancelled).
- Deployed full-stack application to production on Render with automated CI/CD, resolving complex deployment challenges including Prisma binary configuration for Linux environments.
- Implemented CORS configuration, environment variable management, and production-ready error handling for scalable deployment.

Tech Stack: *React.js • TypeScript • Vite • FastAPI (Python) • Prisma ORM • MongoDB • JWT • Tailwind CSS • Shadcn/ui • Render*

### Aug 2024 – Nov 2024 | MATSCHED – Matatu Scheduler System

Founder & Lead Developer

- Built a full-stack SaaS platform for matatu (public transport) scheduling and route management.
- Integrated M-Pesa STK Push payment flow with callback handling, automating fare collection and invoice updates.
- Designed drag-and-drop calendar scheduling, enabling operators to manage routes and vehicle availability efficiently.
- Implemented secure JWT authentication with role-based access for operators, drivers, and passengers.
- Achieved production-ready deployment in under 3 months, demonstrating project ownership and end-to-end development.

Tech Stack: *React.js • Node.js • Express • MongoDB • M-Pesa Daraja API • JWT • FullCalendar*

### Nov 2024 – Feb 2025 | Fit Fusion – Fitness Management Platform

Sole Developer & Founder

- Developed a SaaS system connecting personal trainers with clients, featuring booking engine, trainer discovery, ratings/reviews, and session management.
- Built trainer & client dashboards with secure role-based access, invoice generation, and progress tracking.
- Integrated M-Pesa Daraja STK Push for seamless, real-time payments with automated invoice updates.
- Designed a workout plan builder and weekly progression tracking, including progress photo uploads.
- Implemented FullCalendar.js for real-time availability management and conflict detection.

Tech Stack: *Node.js • Express • MongoDB • Vanilla JS • FullCalendar • M-Pesa Daraja API • JWT*

### Feb 2025 – May 2025 | Smart Matching System – Beauty Services Platform

### *Full-Stack Developer*

- Developed a platform connecting beauty specialists with clients using smart filters (location, price, services, experience, availability).
- Built specialist dashboards for updating profiles, uploading previous works, managing services, and booking management.
- Implemented booking engine with double-booking conflict prevention and earliest-availability sorting.
- Developed admin dashboards for user management, monitoring, and report generation (PDF & Excel).

**Tech Stack:** *React.js • Node.js • Express • PostgreSQL • JWT • Git*

### **Nov 2024 – Feb 2025 | Network Technician / Sales Representative**

*Ecospot Internet Ltd*

- Installed and configured internet infrastructure for residential and commercial clients.
- Conducted site surveys and designed optimized network layouts for various client needs.
- Installed routers, switches, and wireless access points; diagnosed and resolved connectivity issues, achieving high customer satisfaction rates.

## **LANGUAGES & INTERESTS**

**Languages:** English (Fluent) | Swahili (Native)

**Interests:** Open-source contributions, SaaS platforms, Fitness tech, Fintech/payment integrations, Networking and ICT solutions

**Hobbies:** Professional badminton player

## **REFERENCES**

**Valentine Wanjiru** (Ministry of Transport and Public Works, Nyeri)

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**Eugene Baraka** (Stratum Devco, Lead Developer)

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**Fredrick Odumbe** (HelixCraft Software, Software Engineer)

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