KENNEDY MWANZIA
Location: Nairobi, Kenya
Phone: +254 796 516 595
Email: kennieme24@gmail.com | kennedymwanzia001@gmail.com
GitHub: github.com/kennie-afk

PROFESSIONAL SUMMARY

✧ A highly skilled and passionate Software Developer with expertise in full-stack web development, blockchain technology, and database management.

✧ Proficient in JavaScript (Node.js, Express.js), PHP (Laravel, MySQL), Solidity (Smart Contracts), and Python, with hands-on experience in developing and deploying scalable applications. Adept at Agile methodologies, version control (Git/GitHub), and cloud-based deployment strategies. Committed to continuous learning and delivering high-quality solutions to solve real-world problems.

EDUCATION
KCA University, Nairobi, Kenya
2021 – 2025

Bachelor's Degree in Information Technology (BSc. IT)
Key Modules Studied:

✧ Web Development & Internet Application Programming
✧ Database Management Systems (MySQL, SQL, Firebase)
✧ Software Engineering Principles & Agile Methodologies
✧ Object-Oriented Programming (Java, Python, C++)
✧ Cybersecurity & Information Security Management
✧ Blockchain Technology & Smart Contracts Development
✧ Networking & Cloud Computing

Kangaru School, Embu, Kenya
2017 – 2020
Kenya Certificate of Secondary Education (KCSE)

✧ Successfully qualified to pursue a Bachelor's degree in Information Technology at KCA University.

ACK Mwingi St. Paul's Neema Schools, Kitui, Kenya
2014 – 2016
Kenya Certificate of Primary Education (KCPE)

✧ Achieved 361 B+ marks in the KCPE national exam.

Kwitu Academy, Kitui, Kenya
2007 – 2013

✧ Completed primary education, developing a strong academic foundation.

TECHNICAL SKILLS
Programming & Web Development

- ✧ **Frontend:** HTML, CSS, JavaScript (ES6+), Bootstrap, Tailwind CSS
- ✧ **Backend:** PHP (Laravel), Node.js (Express.js)
- ✧ **Database Management:** MySQL, Firebase, SQL Optimization
- ✧ **Blockchain Development:** Solidity, Smart Contracts, Web3.js
- ✧ **Server & Hosting:** Apache (XAMPP), GitHub Pages, Vercel, AWS (Basics)
- ✧ **Version Control:** Git, GitHub

Software Development Methodologies
- ✧ Agile Development & SCRUM – Practical implementation in projects
- ✧ Test-Driven Development (TDD) – Writing unit and integration tests

Cloud & Deployment Tools
- ✧ CI/CD Pipelines – GitHub Actions, Docker (Basic)
- ✧ Hosting & Deployment: Render, GitHub Pages, Vercel, Fleek

PROJECT EXPERIENCE
1. Five Senses Restaurant Management System (PHP, MySQL, JavaScript, HTML, CSS)
- ✧ Developed a web-based restaurant management system for efficient order processing.
- ✧ Implemented secure user authentication and role-based access control.
- ✧ Integrated a responsive UI for enhanced user experience.

2. Payroll Management System (PHP, MySQL, JavaScript, HTML, CSS)
- ✧ Designed and implemented a scalable payroll system for employee salary computation.
- ✧ Automated tax deductions and payslip generation.
- ✧ Optimized database performance to handle large datasets efficiently.

3. Blockchain-Based Voting System (Solidity, React, Web3.js, Fleek, MetaMask)
- ✧ Developed a secure and transparent decentralized voting system using Ethereum blockchain.
- ✧ Integrated MetaMask authentication for voter identity verification.
- ✧ Deployed on Fleek with IPFS hosting for a decentralized web experience.

4. Portfolio Website (JavaScript, HTML, CSS, Node.js)
- ✧ Created a modern portfolio website showcasing projects and technical expertise.
- ✧ Implemented dynamic project updates via a backend server.
- ✧ Deployed using GitHub Pages for accessibility.

5. JavaScript Mini-Projects (Express.js, JavaScript, HTML, CSS)

- ✧ Developed interactive web applications, including to-do lists, weather apps, and real-time chat applications.
- ✧ Optimized code efficiency and performance using best practices.

WORK EXPERIENCE
1. Freelance Software Developer (2022 – Present)
Location: Remote / Nairobi, Kenya
Technologies Used: JavaScript (Node.js, Express.js), PHP (Laravel), HTML, CSS, MySQL, Firebase, Solidity, Web3.js, Git, GitHub, AWS, Vercel, Fleek

- ✧ As a freelance software developer, I have worked on a diverse range of projects, delivering custom web solutions, API integrations, database optimization, and blockchain applications. My work involves end-to-end development, from gathering requirements to deployment, ensuring high-performance and scalable applications.

i. Custom Web & Software Development
- ✧ Designed, developed, and deployed full-stack web applications for clients in industries such as finance, hospitality, e-commerce, education, and real estate.
- ✧ Engineered dynamic and responsive front-end interfaces using HTML, CSS, JavaScript, Bootstrap, and Tailwind CSS to enhance user experience and accessibility.
- ✧ Developed robust backend solutions using Node.js (Express.js) and PHP (Laravel), ensuring smooth data processing and secure system interactions.
- ✧ Built database-driven applications using MySQL and Firebase, implementing efficient query optimization techniques to improve response times.
- ✧ Created progressive web applications (PWAs) to enhance mobile accessibility and user engagement.

ii. API Integration & Backend Architecture Optimization
- ✧ Integrated third-party APIs, including payment gateways (PayPal, Mpesa), authentication systems (JWT, OAuth, Firebase Auth), and cloud-based storage solutions (AWS S3, Firebase Storage).
- ✧ Designed and deployed RESTful APIs to handle business logic and process large amounts of data efficiently.
- ✧ Implemented role-based access control (RBAC) and secure authentication mechanisms to ensure system security and compliance with best practices.
- ✧ Utilized server-side caching techniques (Redis, Memcached) to improve system performance by up to 50%.

iii. Cloud Deployment & Security Enhancements
- ✧ Assisted clients in deploying projects on cloud platforms, including GitHub Pages, Vercel, AWS, and Fleek for high availability and scalability.

- ✧ Secured applications against SQL injection, XSS, CSRF attacks, and other vulnerabilities by following OWASP security standards.
- ✧ Configured firewalls, SSL certificates, and access controls to protect web applications and ensure data security.
- ✧ Set up automated CI/CD pipelines using GitHub Actions and Docker, reducing deployment errors and improving software reliability.

iv. Blockchain Development & Web3 Integration
- ✧ Developed Ethereum-based decentralized applications (DApps) using Solidity, Web3.js, and MetaMask authentication.
- ✧ Designed and deployed smart contracts on the Ethereum blockchain for secure and transparent voting systems, digital wallets, and NFT marketplaces.
- ✧ Integrated IPFS (InterPlanetary File System) hosting solutions for decentralized storage and enhanced security.
- ✧ Implemented gas optimization techniques in smart contracts to reduce transaction costs.

Project Highlights:

i. Payroll Management System (PHP, MySQL, JavaScript, HTML, CSS)
- ✧ Designed a payroll system with automated tax calculations, deductions, and salary computation.
- ✧ Built payslip generation functionality for secure salary documentation.
- ✧ Optimized MySQL queries, improving database efficiency by 40%.

ii. Voting System (Blockchain-Based) (Solidity, React, Web3.js, Fleek, MetaMask)
- ✧ Developed a secure decentralized voting system on the Ethereum blockchain to prevent election fraud.
- ✧ Integrated MetaMask authentication for voter identity verification.
- ✧ Deployed on Fleek with IPFS hosting for decentralized web accessibility.

iii. Real Estate Management System (PHP, Laravel, MySQL, JavaScript)
- ✧ Built a real estate listing platform where users can buy, sell, and rent properties.
- ✧ Implemented automated property verification and payment processing.

iv. Portfolio Website (JavaScript, HTML, CSS, Node.js)
- ✧ Created a modern personal portfolio website to showcase my projects and technical expertise.
- ✧ Implemented real-time project updates using a backend server.

2. Software Development Intern (University Project Work) (April 2024 – July 2024)
Location: KCA University, Kenya
Technologies Used: PHP (Laravel), JavaScript (React, Express.js), Solidity, Web3.js, MySQL, Git, Agile/SCRUM
- ✧ As part of my university coursework, I collaborated with a team of developers on real-world projects that involved full-stack development, system design, and blockchain integration.

i. Enterprise-Level Web Application Development
- Contributed to the development of enterprise-level software solutions for academic and business applications.
- Designed scalable database architectures using MySQL, improving query efficiency and reducing load times.
- Created RESTful APIs to facilitate seamless data transfer between the frontend and backend.

ii. Code Reviews & Best Practices Implementation
- Conducted peer code reviews, identifying and fixing security vulnerabilities, reducing error rates by 35%.
- Implemented clean coding standards using best practices like SOLID principles, MVC architecture, and DRY (Don't Repeat Yourself).
- Used Git and GitHub for version control, maintaining well-documented repositories and ensuring smooth collaboration.

iii. Real-World Deployment & Testing Strategies
- Gained hands-on experience deploying applications on AWS, Vercel, and private university servers.
- Performed unit testing and integration testing using Jest and Mocha, ensuring system reliability.
- Implemented automated deployment pipelines, reducing manual errors and improving release cycles.

Key Takeaways from My Work Experience
- **Full-Stack Development:** Expertise in front-end and back-end development with a strong focus on scalability and performance.
- **Blockchain Integration:** Hands-on experience with smart contracts, Web3, and decentralized applications.
- **Cloud Deployment & Security:** Proficient in deploying applications on AWS, Vercel, Fleek, and GitHub Pages.
- **Problem-Solving & Optimization:** Successfully optimized database queries, implemented security enhancements, and improved application performance.
- **Team Collaboration & Agile Practices:** Worked in SCRUM-based environments, conducted code reviews, and contributed to peer learning.

CERTIFICATIONS & TRAINING
- Web Development & JavaScript Mastery (Self-Taught & University Courses)
- Blockchain Development (Solidity, Smart Contracts) (Self-Taught & Practical Experience)
- Database Management & SQL Optimization (Online Courses & Real-World Experience)
- Agile & SCRUM Methodologies (Practical Implementation in Projects)

SOFT SKILLS
- Strong problem-solving and debugging skills

- Excellent communication and team collaboration abilities
- Fast learner, adaptable to new technologies
- Time management and ability to meet deadlines
- Attention to detail and commitment to writing clean, maintainable code

ACHIEVEMENTS
- Developed and deployed multiple full-stack projects in PHP, JavaScript, and Solidity.
- Successfully contributed to open-source projects on GitHub.
- Built a secure blockchain-based voting system with MetaMask authentication.

HOBBIES & INTERESTS
- Coding & Open-Source Development – Passionate about learning new programming languages and frameworks.
- Tech Blogs & Research – Keeping up with the latest trends in web development and blockchain technology.
- Fitness & Sports – Engaged in a 300 push-ups daily challenge and ab workouts.
- Gaming & Strategy – Playing strategic games to enhance problem-solving and analytical skills.

REFERENCES
Available upon request.