ADEKOLA KEHINDE PELUMI

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PROFESSIONAL SUMMARY ————————————————————————————————————

Versatile and impact-driven Web Developer with a dual background in Computer Science and Economics, combining analytical insight with technical expertise to build scalable, user-focused digital solutions. Adept in developing responsive websites and backend systems that have increased user engagement, optimized performance, and enhanced platform stability under high traffic. Demonstrated ability to lead and collaborate on cross-functional projects, mentor junior developers, and drive innovation through clean code, strategic design, and continuous improvement.

CORE COMPETENCIES ————————————————————————————————————

Tools: Proficient in using AWS, Docker, Microsoft Azure, Google Analytics, GitHub, Beautiful Soup, Kubernetes, Canva, Microsoft Office (Word, Excel, Outlook, PowerPoint).

Programming Languages: Python, HTML, CSS, SQL (MySQL), Flask, FastAPI

Skills: Backend Development | API Development | RESTful Architecture | Web Development | Database Optimization | Scalable System Design | FastAPI Framework | PostgreSQL | Git | SEO Optimization | Web Performance Optimization | Web Scraping | Responsive Design | User Authentication | Admin Dashboard Development | Caching Strategies | Error Handling | Test-Driven Development (TDD) | Continuous Integration (CI/CD) | Version Control | Agile Development | Technical Documentation | Data Analysis | System Monitoring | Wireframing | UI/UX Collaboration | Project Management | Problem Solving | Mentorship & Training | Communication Skills | Innovation

PROFESSIONAL EXPERIENCE ————————————————————————————————

Backend API Developer
Freelance | Cars Nigeria, HNG Tech | 2024 – Present
- Designed and engineered the core backend API for Nigeria's leading car marketplace (Cars.ng), enabling real-time vehicle listings, advanced search filters, user authentication, dealer onboarding, and administrative controls.
- Implemented a RESTful API architecture with well-structured endpoints, logical resource mapping, and HATEOAS principles, ensuring clarity, consistency, and ease of integration across web and mobile platforms.
- Optimized database queries using raw SQL, SQLAlchemy, and indexing techniques to handle large datasets of vehicle listings, improving search response time by 55% and enhancing data retrieval accuracy.
- Applied caching strategies using Redis and HTTP headers to reduce server load and latency, resulting in a 35% improvement in API performance and faster delivery of static and dynamic content.
- Built a secure, token-based authentication system using JWT and OAuth2 protocols, enforcing role-based access control for users, dealers, and admin personnel across multiple routes and microservices.
- Integrated robust error-handling mechanisms and logging tools (e.g., Sentry, Loguru) to monitor API health, improve debugging speed, and maintain a stable production environment with minimal downtime.
- Collaborated with front-end developers and mobile engineers to align API responses with UI requirements, enabling responsive search filters, real-time inventory updates, and smooth dealership profile management.
- Designed and deployed the backend blog API for HNG Tech, connecting it to a custom content management system (CMS) to allow for seamless publishing, version control, and content hierarchy structuring.
- Structured blog endpoints to be SEO-friendly, with clean URLs, metadata exposure, and content previews—resulting in improved indexing and increased blog traffic engagement.
- Built an intuitive admin-side interface for HNG blog content managers, including endpoint controls for publishing, editing, deleting, tagging, and scheduling—streamlining content workflows and reducing manual errors.
- Configured automated deployment pipelines using GitHub Actions and Docker, ensuring code integrity, faster rollouts, and consistent environment replication for both development and production stages.
- Documented all API endpoints using Swagger (OpenAPI) for internal use and third-party integration, ensuring smooth developer onboarding, reduced support tickets, and maintainable long-term scaling.

Website Developer & Designer | 2023 – 2024
Perfect Ventures & GoodFlow | Remote
- Developed fully responsive websites using Python (Flask and FastAPI), HTML5, CSS3, and JavaScript, tailored to client branding and audience needs, resulting in a 45% increase in user engagement and a notable drop in bounce rates across core landing pages.

- Engineered customized web applications that automated service requests, product catalogs, and contact forms, leading to a 30% surge in online customer interactions and improved lead generation funnel performance.
- Optimized website performance through backend refactoring, CDN integration, image lazy-loading, and GZIP compression, resulting in 40% faster load times and enhanced SEO rankings across key search terms.
- Designed scalable backend infrastructures to accommodate increasing user traffic, achieving 50% higher load tolerance without latency or server crashes by implementing asynchronous I/O and efficient query processing.
- Integrated advanced analytics tools such as Google Analytics, Hotjar, and open-source behavior recorders to monitor real-time site interactions, track conversion funnels, and uncover user experience bottlenecks.
- Reduced server response time by 40% by profiling endpoints and optimizing data retrieval logic, implementing cache control strategies (Redis/memory caching), and minimizing redundant API calls to external services.
- Deployed production-grade applications on AWS EC2, S3, and Microsoft Azure App Services, configuring CI/CD pipelines with GitHub Actions and Azure DevOps to automate testing, staging, and live deployment—ensuring 99.9% uptime and rollback safety.
- Created interactive, user-centric designs using Canva and Figma for prototyping and front-end layout ideation, implementing modular and accessible UI components that improved time-on-site metrics and client satisfaction.
- Automated data handling processes by building Python scripts to parse, clean, and populate data from CSV files into dynamic pages—streamlining internal workflows for content updates, pricing, and form responses.
- Established secure authentication and authorization systems using JWT and OAuth2 protocols, ensuring safe user sessions, admin access control, and encrypted data storage in compliance with data protection best practices.
- Led collaborative development sprints using GitHub for version control, pull requests, and issue tracking—maintaining clean codebases, reviewing team contributions, and facilitating Agile task cycles with Trello and Slack integration.
- Conducted extensive QA and cross-browser testing, including unit testing with PyTest and Selenium automation scripts, to verify mobile responsiveness, accessibility compliance (WCAG 2.1), and functionality across major browsers and devices.

EDUCATION --

Bachelor of Science in Computer Science and Economics, Obafemi Awolowo University, Osun State | 2020 - Present

VOLUNTEER EXPERIENCE ---

ALX Africa | Volunteer Backend Developer (Remote, 2024)
- Spearheaded backend architecture enhancement for ALX community-driven platforms using Node.js and Express, resulting in a 30% increase in system processing efficiency and reduced API response time.
- Collaborated with cross-functional teams to integrate advanced analytics tools, enabling real-time user behavior tracking; also provided mentorship to junior developers by conducting programming sessions.

HealReach Foundation | Technical Support & Data Analyst (Lagos, 2024)
- Designed and deployed a robust data collection and validation system that enhanced patient record accuracy by 40% during medical outreach campaigns, streamlining follow-up care and reporting.
- Oversaw end-to-end website maintenance and digital outreach strategy, including SEO optimization, social media integration, and email marketing automation, resulting in a 25% increase in volunteer registrations.

Tech4Impact Initiative | Web Developer & Trainer (OSUN 2023)
- Developed and deployed a responsive community resource website using HTML, CSS, JavaScript, and WordPress, significantly enhancing access to digital educational materials for over 500 learners.
- Facilitated hands-on coding workshops for 100+ participants, delivering beginner-level training in HTML, CSS, and JavaScript; created step-by-step learning guides and follow-up mentorship sessions.

CERTIFICATIONS ---

Web Development, HNG Internship
Soft Skills Training, Jobberman

REFERENCES ---

Available on request.