PATIENCE NKATHA

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GitHub: github.com/nkatha1 | Portfolio: nkatha1.github.io/my-portfolio-website
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Software Engineer | Data Analyst | Full Stack Developer

Full Stack Web Development | API Design & Development | Programming Languages (JavaScript, Python, Java, R, STATA) | Database Management & Optimization | Cloud Deployment & DevOps | Frontend Development & UI Optimization | Data Analysis & Visualization | Statistical Modelling & Forecasting | Version Control & Collaboration | Authentication & Security Systems | CI/CD & Automation | Dashboards & Reporting Automation | E-Commerce Web Systems Development | Object-Oriented Programming | API Integration & Third-Party Tools

PROFESSIONAL SUMMARY

Results-driven software engineer and data analyst with a strong background in full stack development, data processing, and system optimization. Skilled in programming, API integration, database management, and data visualization, ensuring functionality, performance, and reliability in fast-paced digital environments. Experienced in software deployment, statistical analysis, and cross-platform integration, with a keen ability to streamline development workflows and enhance application efficiency. Highly adaptable to evolving technologies, capable of managing multiple projects remotely, and dedicated to delivering high-quality, data-driven software solutions with precision and speed.

Career Strengths

- **Analytical Thinking & Problem-Solving:** Effectively diagnoses code issues, analyses large datasets, and implements scalable solutions, ensuring optimized software functionality and system reliability.
- **Critical Thinking & Decision-Making:** Evaluates technical challenges, assesses project trade-offs, and makes data-driven decisions that align with development goals and user needs.
- **Attention to Detail & Accuracy:** Writes clean, efficient code, conducts thorough code reviews, and ensures data accuracy in reports and dashboards, maintaining high-quality software standards.
- **Team Collaboration & Leadership:** Collaborates with cross-functional teams during remote sprints, contributes to agile workflows, and provides guidance to junior developers, ensuring project execution.
- **Communication & Interpersonal Skills:** Clearly communicates technical concepts to clients and team members, documents project specifications, and ensures alignment across development stages.
- **Time Management & Organization:** Manages multiple deadlines, prioritizes feature rollouts, and maintains organized project files and version control, ensuring timely and structured delivery.
- **Adaptability & Flexibility:** Quickly adapts to new tools, frameworks, and shifting project requirements, maintaining performance across fast-paced development environments.

PROFESSIONAL EXPERIENCE

Software Engineer | January 2023 – Present
Fiverr – Remote
Key Contributions:

- Built 10+ high-performance web applications by developing clean, scalable codebases and integrating responsive UI components, increasing client operational efficiency and satisfaction.
- Enhanced frontend usability by designing SEO-optimized, mobile-responsive interfaces using React.js, HTML, and CSS, improving user engagement by 80%.
- Reduced server load by optimizing database queries and indexing in MySQL and MongoDB, decreasing query response times by 70%.
- Strengthened system security by implementing token-based authentication and data encryption, ensuring compliance with global security standards.
- Delivered actionable insights by analyzing client data in Python and R, empowering businesses to make informed, data-driven decisions.

- Improved development workflow by managing CI/CD pipelines across AWS, Heroku, and GCP, shortening deployment time by 50%.
- Increased client retention by translating business needs into software solutions, securing a 60% rise in repeat project engagements.

Java Developer | March 2022 – Present
Upwork – Remote
Key Contributions:
- Engineered backend systems by writing efficient Java code in Spring Boot, supporting 25+ web and enterprise-grade applications for global clients.
- Enabled smooth API consumption by building RESTful endpoints, facilitating seamless frontend-backend integration with React and Angular apps.
- Improved data transaction speed by utilizing Spring Data JPA for optimized database communication with MySQL and PostgreSQL, enhancing backend performance by 60%.
- Secured digital assets by integrating Spring Security protocols (JWT/OAuth2), reducing vulnerability exposure across all deployed systems.
- Reduced time-to-delivery by designing reusable Spring Boot starter templates, accelerating development timelines by over 40%.
- Boosted client satisfaction by maintaining clean, well-documented code and ensuring prompt delivery, resulting in consistent 5-star reviews.

Junior Data Analyst | May 2023 – September 2023
Maara Subcounty – Chogoria, Kenya
Key Contributions:
- Improved data accuracy by collecting, cleaning, and standardizing multi-department datasets, reducing reporting errors by 60%.
- Facilitated decision-making by developing interactive dashboards using Power BI and Tableau, providing real-time visibility of performance metrics.
- Informed policy adjustments by conducting statistical analysis in R and Python, identifying trends in service delivery and citizen feedback.
- Streamlined reporting processes by writing advanced SQL queries, cutting report generation time by 70%.
- Boosted operational efficiency by identifying and correcting service delivery gaps, leading to a 60% improvement in departmental response times.
- Promoted data-driven governance by collaborating with technical teams and administrators to align data insights with policy goals.

Full Stack Developer Intern | March 2022 – September 2022
Crowdsource – Remote
Key Contributions:
- Improved system responsiveness by developing full-stack web applications using React.js, Node.js, and Flask, boosting user task efficiency by 80%.
- Enabled smooth data flow by building and deploying RESTful APIs, enhancing communication between frontend and backend systems.
- Enhanced user security by integrating Firebase Auth and JWT-based authentication, safeguarding sensitive user credentials.
- Simplified workflows by incorporating third-party APIs for payments and analytics, automating business operations and reporting.
- Increased load speed by applying advanced caching techniques and asset optimization, reducing average page load times by 70%.

- Ensured cohesive functionality by collaborating with cross-functional teams to align feature development and system performance.

Youth Counselor | March 2021 – September 2021
Hopecore Organization – Chogoria, Kenya
Key Contributions:
- Supported youth development by providing one-on-one and group counseling sessions, addressing emotional and behavioural issues for over 50 clients.
- Enabled personal growth by designing action-oriented development plans tailored to individual goals, increasing youth goal attainment rates.
- Promoted wellness education by leading workshops on mental health, self-esteem, and personal care, improving youth self-awareness.
- Strengthened support systems by coordinating with schools, families, and local organizations, expanding access to community-based resources.
- Increased positive outcomes by tracking client progress and refining counselling strategies, ensuring sustained behavioural improvements.
- Maintained ethical integrity by adhering to strict confidentiality and counselling standards, fostering trust and safe communication spaces.

Key Achievements
- Developed and deployed full-stack applications by integrating React.js, Node.js, and MongoDB with secure authentication and responsive UI design, increasing user engagement and operational efficiency by 60%.
- Improved backend performance by implementing caching strategies, refactoring API endpoints, and automating deployments through CI/CD pipelines, reducing API response time by 40% and accelerating delivery cycles.
- Enhanced business decision-making by analysing complex datasets using Python, R, and STATA, developing predictive models, and automating reporting, leading to a 30% revenue increase and saving 15 hours per week.
- Informed policy and resource planning by creating interactive dashboards in Power BI and Tableau, visualizing key trends and performance metrics, and supporting over 20 strategic decisions across departments.
- Increased user engagement by 70% by deploying e-commerce platforms on Heroku and Netlify, integrating Stripe payment systems and Firebase authentication to streamline checkout and secure access.
- Boosted system performance by 70% by optimizing React.js frontend components, enhancing database queries in MySQL and PostgreSQL, and reducing deployment errors by 40% through CI/CD pipeline implementation.

EDUCATION

Bachelor of Economics & Statistics | Expected Sep 2024
Kirinyaga University – Kutus, Kirinyaga

TRAINING & CERTIFICATIONS
- Artificial Intelligence – ALX Africa | 2023
- Software Engineering – ALX Africa | 2023
- Data Structures & Algorithms – Unstop | 2023

LANGUAGES

☑ English – Proficient
☑ Swahili – Proficient