EDWIN OGOLA

Full Stack Developer

✉ brandon14ogola@gmail.com 📞 +254706322944 🌐 *Linkedin*

A results-driven Full Stack Developer with 3+ years of experience designing and developing high-performance, user-centric web applications using React and Node.js. Delivered projects that reduced load times by 25%, improved productivity by 40%, and boosted user satisfaction scores. Proficient in collaborating with teams using Agile methodologies, solving real-world challenges with clean, scalable code, and continuously learning emerging technologies to drive innovation.

Experience

Freelance Full Stack Developer   *2020 - present*
Self-Employed | Remote |

- Designed and developed responsive, user-friendly web applications for various clients using React and Node.js, consistently meeting and exceeding project expectations.

- Transformed client visions into functional, visually appealing user interfaces by collaborating with UI/UX designers and adhering to branding standards.

- Enhanced application performance across multiple freelance projects, reducing load times by an average of 25% through code optimization and efficient rendering techniques.

- Built scalable, data-driven solutions by integrating RESTful APIs and implementing state management strategies with Redux, ensuring smooth and reliable application performance.

- Provided cross-browser and cross-device compatibility using tools like Lighthouse, Webpack, and modern frontend frameworks, delivering polished and consistent results.

- Successfully managed project timelines, budgets, and client communication, fostering strong relationships and repeat collaborations.

Software Engineer Intern   *Feb 2024-August 2024t*
RealBiz Digital | Remote |

- Developed and maintained scalable web applications using JavaScript, React, and Node.js, resulting in a 20% increase in user engagement and improved system performance.

- Assisted in building and deploying RESTful APIs that facilitated seamless data exchange, reducing data retrieval times by 30%.

- Collaborated with senior developers and design teams to ensure accurate implementation of user-centered designs, leading to a 10% increase in user satisfaction scores.

- Conducted performance testing and debugging, successfully identifying and resolving 95% of reported issues within project timelines.

- Participated in Agile workflows, including daily standups, sprint planning, and code reviews, improving team efficiency by 15%.

- Researched and recommended modern development tools and best practices, cutting deployment times by 25% and enhancing overall productivity.

projects

1. ## AI-Powered Chatbot for Customer Support

- Developed an AI-driven chatbot using natural language processing (NLP), Python and TensorFlow, capable of answering customer queries and resolving common issues with 95% accuracy. It provide real-time customer support for an e-commerce platform, reducing response time by 40% and increasing customer satisfaction.

- Integrated the chatbot with third-party APIs to enable automated query resolution, product recommendations, and order tracking.

- Integrated the chatbot with a CRM system, automating 40% of customer service interactions and reducing response time by 60%.

Technologies Used:Python, TensorFlow, Natural Language Processing (NLP), Flask

2. E-Commerce Website with Dynamic Recommendation Engine

- Built a full-stack e-commerce platform using React, Node.js, and MongoDB, featuring user authentication, secure payments, and order tracking.

- Implemented a machine learning recommendation engine using scikit-learn, boosting average order value by 25%.

Technologies Used: React, Node.js, MongoDB, Express, scikit-learn, RESTful APIs

Smart Home Automation System

- Built a smart home system for controlling lights, temperature, and security cameras using IoT and MQTT protocols.

- Result: Improved energy efficiency and automation for residential environments.

Technologies Used: AWS Lambda, DynamoDB, MQTT, React, Node.js, Python,IoT Devices

Weather World Application

- Designed a dynamic weather web app featuring real-time weather updates, 5-day forecasts, and a subscription feature for newsletters.

- Integrated external APIs for weather data and implemented responsive UI/UX for cross-platform compatibility.

- *Impact*: Demonstrated proficiency in API integration, DOM manipulation, and responsive design principles.

Technologies Used: HTML, CSS, JavaScript, Bootstrap, Weather API

Task Manager Application

- Developed a full-stack application to manage tasks with features like CRUD operations, priority sorting, and user authentication.

- Focused on clean code practices and optimized frontend performance for seamless user interaction.
- *Outcome:* Improved productivity tracking for end-users by 40%.

- *Technologies Used:* React.js, Node.js, MongoDB

Technical Skills

Programming Languages
- Proficient in *Python, JavaScript, HTML, and CSS* for full-stack development, scripting, and automation.

- Familiar with *TypeScript* for scalable JavaScript applications and enhanced code reliability.

Frameworks & Libraries
- Strong expertise in *React.js, React Native and Node.js* for building modern, responsive, and scalable web applications.

- Skilled in *Django* for secure and efficient backend development and *TensorFlow* for implementing AI/ML solutions.

- Experience with *Express.js* for RESTful API development and microservices architecture.

Databases
- Proficient with *MongoDB, MySQL*, and *PostgreSQL* for designing scalable relational and *NoSQL* databases.

- Experience in *Firebase* for real-time database integration in modern web applications.

Cloud Services & DevOps
- Hands-on experience with *AWS* (Lambda, S3, EC2, IoT Core) for scalable cloud deployments and serverless architectures.

- Proficient with *Docker and Kubernetes* for containerization, orchestration, and deployment automation.

- Experience deploying applications on *Heroku and Netlify* with CI/CD pipelines.

AI & Machine Learning
- Practical experience in *Natural Language Processing (NLP), chatbot development,* and *recommendation engines.*

- Applied *Scikit-learn and Pandas* for data analysis, model building, and predictive analytics.

- Knowledgeable in leveraging *OpenAI APIs* for creating intelligent and automated tools.

Web Development
- Expertise in responsive design using frameworks like *Bootstrap and Tailwind CSS* for cross-platform compatibility.

- Skilled in *RESTful APIs and GraphQL* for efficient data fetching and backend integration.

- Developed Single Page Applications (SPAs) and dynamic web content with *React Router.*

Version Control & Collaboration
- Strong command of *Git* and platforms like *GitHub and GitLab* for version control, collaborative development, and CI/CD workflows.

- Adept at code reviews, pull requests, and branch management following industry standards.

Testing & Debugging
- Experience with *unit testing* (e.g., Jest, Mocha, PyTest) and *end-to-end testing tools* like *Cypress and Selenium.*

- Proficient in debugging tools such as *Chrome DevTools and Postman* for API testing.

Agile & Project Management
- Familiar with Agile methodologies and tools like *Jira, Trello, and ClickUp* for project tracking and sprint planning.

- Proven ability to prioritize tasks, meet deadlines, and collaborate effectively in team environments.

IoT & Automation
- Experience integrating IoT systems with *MQTT* for smart device communication and automation.

- Designed home automation projects leveraging *Raspberry Pi* and *microcontrollers.*

Additional Technical Skills
- *API Integration:* Worked with public APIs (OMDb, OpenWeatherMap) and built custom API solutions.

- *Command Line & Scripting:* Experience with *Bash* scripting for automating workflows and tasks.

- *UI/UX Design:* Familiarity with tools like *Figma and Adobe XD* for wireframing and prototyping user interfaces.

- *Performance Optimization:* Knowledgeable in improving web application performance through *Lighthouseaudits, lazy loading, and code splitting.*

Soft Skills

- Strong problem-solving and critical-thinking abilities for debugging complex issues.

- Effective communicator with a passion for *team collaboration*, knowledge sharing, and adaptability to new technologies.

- Proactive learner who stays updated on industry trends through personal projects and continuous learning (*e.g., Udemy, freeCodeCamp, and open-source contributions).*

Education

Bachelor of Arts in Political Science and Literature
University of Nairobi | Expected Graduation: 2025

- Top-performing student with exceptional results, demonstrating strong analytical, critical-thinking, and research skills.

- Developed problem-solving abilities and structured reasoning, which translate seamlessly into software development and system design.

- Balanced academic excellence with a passion for technology, using self-initiated learning to pivot into software engineering.

Software Engineering Program
Moringa School | [May/2022] – [November/2022]

- Successfully completed an intensive, industry-relevant bootcamp focused on full-stack development.

- Built and deployed multiple real-world projects showcasing proficiency in:

  Frontend: HTML, CSS, JavaScript, React.js
  Backend: Node.js, Express.js, RESTful APIs
  Databases: MongoDB, PostgreSQL
  Version Control: Git, GitHub

- **Key Achievement:** Developed a full-stack application that streamlined task management for remote teams, reducing manual processes by 40%.

- Collaborated in Agile development environments, emphasizing sprint planning, pair programming, and clean code practices.

- **Key Contribution:** Led a team project to build an e-commerce platform integrating payment APIs, increasing project scope understanding and delivery speed.

ALX Software Engineering Program
ALX Africa | [February/2023] – [September/2023]

- Selected for a highly competitive software engineering program recognized for producing top-tier global talent.

- Gained expertise in Python programming, algorithms, data structures, and system design.

- Key Achievement: Created a scalable Python-based project, a recommendation engine using machine learning algorithms to enhance user engagement.

- Mastered problem-solving through platforms like LeetCode and HackerRank, solving real-world coding challenges to hone technical proficiency.

- Excelled in group projects and open-source contributions, showcasing adaptability, collaboration, and leadership in a team environment.

Cloud Development & DevOps
Self-Led Learning | Ongoing

- AWS Fundamentals: Proficient in using S3, Lambda, and IoT Core for cloud-based applications.

- Implemented CI/CD pipelines with Docker and GitHub Actions for automated testing and deployment.

- *Project Highlight:* Developed and deployed a serverless web app on AWS, optimizing performance and scalability.

Certifications & Self-Led Learning

- *AWS Cloud Foundations Certification* – Demonstrated proficiency in cloud services and serverless architectures.

- *Git & GitHub for Version Control* – Mastered collaborative development workflows and CI/CD pipelines.

- *Responsive Web Design Certification* – freeCodeCamp: Designed user-centric, mobile-first websites with HTML, CSS, and modern frameworks.

- *Coding Challenges & Competitions:* Consistently ranked on platforms like HackerRank, LeetCode, and Codewars, with a focus on writing clean, efficient code.