

Edwin Ogola

Web Developer

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Ambitious entry-level tech professional passionate about leveraging innovations like AI, machine learning, cloud computing, and automation. With a solid foundation in coding, data analysis, and problem-solving, I'm eager to contribute to teams driving digital transformation. Committed to continuous learning and applying my skills to real-world challenges in the tech industry.

Experience

Freelance Developer

June 2022 – Present

- Developed and deployed custom websites and web applications for small businesses using HTML, CSS, JavaScript, and React.
- Built and optimized full-stack applications, integrating APIs and databases with technologies like Node.js, MongoDB, and MySQL.
- Collaborated with clients to define project scope, timelines, and deliverables, ensuring alignment with their business goals.
- Enhanced website performance and user experience through responsive design, SEO best practices, and cross-browser compatibility.
- Conducted code reviews and provided technical support to ensure long-term project sustainability.
- Continuously improved skills in emerging technologies, such as AI tools, to automate and enhance project functionality.

Tech Intern | REAL BIZ DIGITAL

March 2024 – August 2024

- Assisted in the development and maintenance of web applications, contributing to both front-end and back-end tasks using HTML, CSS, JavaScript, and Python.
- Collaborated with senior developers to create and test functional features, ensuring a seamless user experience across devices.
- Participated in the deployment and integration of cloud-based services, optimizing client websites for scalability and performance.
- Conducted software testing, debugging, and quality assurance to ensure project deliverables met high industry standards.
- Provided support for ongoing digital marketing projects by analyzing website data and implementing SEO best practices to increase traffic and engagement.
- Engaged in agile project management, assisting with sprint planning, task prioritization, and progress reporting.

Projects

1. AI-Powered Chatbot for Customer Support

Developed a fully functional AI chat-bot using Natural Language Processing (NLP) and machine learning models to automate customer service responses.

- Integrated with popular messaging platforms (e.g., Facebook Messenger, WhatsApp, X) and CRM systems to provide real-time, personalized support.
- Trained the chat-bot with a diverse dataset to improve response accuracy and handle complex customer inquiries.
- Deployed on cloud infrastructure using AWS Lambda for scalable performance.
- Resulted in a 30% reduction in response time and improved customer satisfaction for clients.

Key Technologies: Python, TensorFlow, AWS, NLP, Chat-bot API integration

2. E-commerce Website with Dynamic Recommendation Engine

Developed an e-commerce platform with an integrated recommendation engine using machine learning algorithms to personalize product suggestions for users.

- Implemented front-end using React.js and a Node.js backend, ensuring a responsive and user-friendly interface.
- Built and trained a recommendation engine with collaborative filtering and content-based filtering algorithms to suggest relevant products based on user behavior and preferences.
- Deployed the platform on Heroku and integrated Stripe API for secure payment processing.
- Increased average customer purchase value by 20% through personalized recommendations.

Key Technologies: React.js, Node.js, MongoDB, Python, ML algorithms, Stripe API

3. Serverless IoT Home Automation System

Created a home automation system using IoT devices and serverless architecture to remotely control and monitor home appliances.

- Developed mobile and web applications that allow users to control lights, security systems, and appliances using voice commands and scheduled routines.
- Integrated with AWS IoT Core for device management and Lambda for serverless execution, minimizing infrastructure costs and increasing scalability.
- Implemented real-time analytics to monitor energy consumption, helping users optimize their usage and reduce costs.
- Achieved seamless integration with smart assistants like Amazon Alexa and Google Assistant for voice control.

Key Technologies: AWS IoT, Lambda, MQTT, Python, React Native, Google Assistant integration

Technical Skills

- **Programming Languages:** Python, JavaScript, HTML, CSS
- **Frameworks & Libraries:** React.js, Node.js, Django, TensorFlow
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Cloud Services & DevOps:** AWS (Lambda, S3, IoT Core), Heroku, Docker
- **AI & Machine Learning:** Natural Language Processing (NLP), Chatbot Development, Recommendation Engines
- **Web Development:** Responsive Design, API Integration, RESTful Services
- **Version Control:** Git, GitHub
- **Testing & Debugging:** Unit Testing, QA Automation, Bug Tracking
- **IoT & Automation:** MQTT, Home Automation Systems, Smart Device Integration
- **Agile & Project Management:** Sprint Planning, Task Prioritization, Jira, Trello

