

Edwin Ogola

Software Engineer

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An ambitious entry-level technology professional with a strong passion for harnessing innovations such as artificial intelligence, machine learning, cloud computing, and automation. Equipped with a solid foundation in coding, data analysis, and problem-solving, I am eager to contribute to teams that are spearheading digital transformation initiatives. I am committed to continuous learning and dedicated to applying my skills to address real-world challenges within the technology sector.

Experience

Freelance Software Developer

June 2022 – Present

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

Tech Intern | Real Biz Digital

February 2024 – August 2024

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

Projects

1. AI-Powered Chatbot for Customer Support

- Developed a fully operational AI chatbot utilizing Natural Language Processing (NLP) and machine learning models to automate customer service responses.
- Integrated the chatbot with popular messaging platforms (e.g., Facebook Messenger, WhatsApp, X) and customer relationship management (CRM) systems to deliver real-time, personalized support.
- Trained the chatbot using a diverse dataset to enhance response accuracy and effectively address complex customer inquiries.
- Deployed on cloud infrastructure via AWS Lambda to ensure scalable performance.
- Achieved a 30% reduction in response time, resulting in improved customer satisfaction for clients.

Key Technologies: Python, TensorFlow, AWS, NLP, Chatbot 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
- Agile & Project Management: Sprint Planning, Task Prioritization, Jira, Trello
- IoT & Automation: MQTT, Home Automation Systems, Smart Device Integration