Derek Banor

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SUMMARY

I thrive on solving complex problems through innovative technology solutions. With experience in web development, cloud technologies, and software engineering, I work across a diverse range of tools and languages, including PHP, Laravel, React, React Native, Node.js, Next.js, Python, and JavaScript. I specialize in building accessible, interactive, and user-friendly applications while leveraging cloud platforms like AWS to develop scalable and efficient solutions.

Recently, I've been developing a dynamic chatbot feature for an e-learning platform, utilizing React and Node.js to create seamless user-bot interactions powered by the OpenAI API. I am driven by the opportunity to create impactful solutions that improve user experiences and make technology more inclusive.

PROFESSIONAL EXPERIENCE

Web Developer Specialist

AccessTech Innovation and Research Center, October 2023 – Present

• Spearheaded the design and implementation of an e-learning website optimized for partially and visually impaired users, ensuring equitable access to educational resources.
• Built assistive e-commerce solutions with a backend in PHP, transitioning to Laravel for advanced functionalities.
• Led the development of an assistive website tailored to users with disabilities, focusing on accessibility features to enhance user experience and inclusivity.
• Assisted in supervising Python, Excel, and Microsoft trainees, providing guidance to enhance their technical skills in software development and data analysis.

Summer Intern

BYF Institute, June 2022 – July 2022

• Supported IT students during a project on data structures and algorithms.

• Assisted in troubleshooting and providing technical guidance to ensure project success.

PROJECTS

Chatbot Feature Implementation

• Developed an interactive chatbot feature for an e-learning platform using React, Node.js, and OpenAI's GPT-3.5-turbo API to create dynamic, user-friendly interactions.
• Users can send messages aligned to the right, while chatbot responses appear on the left, ensuring a clear chat experience.
• Designed the message structure and user interface, inspired by popular messaging platforms, to ensure readability and responsiveness.
• API integration for smooth user-bot interactions, with a backend built in Node.js to handle API requests and manage message flow.
• This project enhanced my skills in AI chatbot integration, responsive interface design, and API troubleshooting.

AccessTechStore e-Commerce Website

• Developed and maintained an e-commerce platform using PHP, ensuring high standards of accessibility for users with disabilities.
• Integrated accessibility features to meet WCAG guidelines and improve the overall user experience for all customers.
• Transitioned the backend to Laravel for improved scalability and security, incorporating user authentication and enhanced routing capabilities.

AccessTechAcademy e-Learning Website

• Designed and built an e-learning platform using PHP with a focus on accessibility for visually impaired users.

Visitors Sign-in and Sign-out System

• Developed a visitors/Items management system using Laravel, PHP, and JavaScript, providing secure visitor/Item registration and real-time entry/exit tracking.

BanorInc Supply Chain Website

• Created a supply chain management platform leveraging PHP and MySQL to track inventory, orders, and suppliers efficiently.

AWS Virtual Running Operating System

• Designed and managed an AWS-based virtual running operating system, supporting a blog with cloud hosting solutions for scalability.

Cloud-based Project Management Tool (Under Development)

• Building a project management tool hosted on AWS, leveraging React for the frontend and Python for the backend to enable real-time collaboration.

EDUCATION

Methodist University, Accra, Ghana, September 2019 – September 2023

Bachelor of Science: Information Technology

SKILLS

• Programming and Web Development: PHP, Laravel, React, React Native, Node.js, Next.js, JavaScript, HTML, CSS, Python
• Real-time Technologies: WebSockets, Redis

• Cloud Technologies: AWS (EC2, S3), Cloud Computing, AWS Solutions Architect (in progress)
• Software Engineering: Agile Development, SDLC, Problem Solving, Algorithms, Data Structures
• Tools & Technologies: Git, MySQL, Adobe XD, Jenkins, JIRA

INTERESTS

• Cloud Computing: Exploring AWS technologies and scalable cloud solutions.
• Real-time Communication: Developing chat systems and collaborative tools.
• Assistive Technologies: Building accessible platforms for underserved communities.

- Project Engineering: Managing and delivering complex projects from start to finish.