

Bernard Osei Akomanyi

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EDUCATION

FISK UNIVERSITY

AUGUST 2024 - PRESENT

BS Computer Science, concentration in Software Engineering with Ella Shepherd Moore Provost Scholarship

Minor: W. E. B. Du Bois Honors Program.

SPRINGFIELD COLLEGE

SEPTEMBER 2023 - MAY

2024

- BS Computer Science, concentration in Software Engineering with Trustee scholarship

ADISADEL COLLEGE

OCTOBER 2019 - SEPTEMBER 2023

- General Science

WORK EXPERIENCE

CKODON

OCTOBER 2023 - PRESENT

Full Stack Developer

- Developed Create-Read-Update-Delete tools for the platform's API, which enhanced data management efficiency.
- Implemented error logging with Sentry.io and configured alerts via Slack, reducing error response time by 40%.
- Contributed a Python script for auto-generating essential API files, streamlining development processes.

SPRINGFIELD COLLEGE

SEPTEMBER 2023 - PRESENT

Research Assistant Under Dr. Jeremy Castagno

- Creating a front-end system for computer vision research on physics experiments using React with TypeScript and Zustand.
- Building a responsive dashboard website to conduct experiments, record, store and visualize the data.
- Designed the final prototype in Figma after numerous iterations and team meetings, and coding the frontend at the moment.

HEADSTARTER AI

JULY 2024 - PRESENT

Software Engineering Fellow

- Building 5+ AI web apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 1000 users.
- Developing projects from design to deployment leading 5+ engineering fellows using MVC design patterns.
- Expanded knowledge on Computer Programming languages like CSS, JavaScript and C++

GOOD SHEPHERD ANGLICAN SCHOOL

ARIL 2022 - 2024

Full-Stack Developer

- Built and integrated RESTful APIs for the school's website using Node.js and Express with a React frontend.
- Designed and implemented responsive interfaces with React and styled-components, focusing on usability for students, teachers, and administrators.
- Managed deployment and maintenance, with real-time monitoring using Sentry and automated deployments via GitHub Actions.

PROJECTS

Good Shepherd Anglican School Website | HTML, CSS, React, Node.js, MongoDB

- Developed a comprehensive school website featuring event management, announcement posting, and user authentication.
- Improved communication between faculty, students, and parents, resulting in a 40% increase in engagement and access to resources.

Africana Food Delivery | HTML, CSS, React, Node.js, MongoDB

- Built a full-featured food delivery app with real-time order tracking and user authentication.
- Enhanced customer experience and streamlined restaurant operations, leading to a 25% increase in user retention.

OsBank | HTML, Tailwind CSS, React, Next.js, Chart.js, Node.js MongoDB Socket.io, Stripe

- Banking app with a finance management dashboard that connects multiple bank accounts, displays real-time transactions, and allows you to transfer money to other users on the platform using Next.js 14.

- Utilized modern technologies like Tailwind CSS for a sleek user interface, Chart.js for interactive data visualization, and Socket.io for real-time updates, ensuring a secure and efficient banking experience.
- Streamlined payments and transactions with Stripe integration, while MongoDB and Node.js handle robust backend.

FootballVision | Python, YOLOv8, OpenCV

- This project demonstrates creating a football analysis system using machine learning and computer vision techniques. It employs YOLOv8 for detecting players, referees, and footballs, with custom object detectors and KMeans for accurate player segmentation.
- The system also utilizes optical flow and perspective transformation to measure player movement and speed.

SKILLS AND PROFICIENCIES

Programming Languages: Python, Java, JavaScript, C++, Go/Golang, Swift, HTML, CSS, SQL

Frameworks: Django, React, Tensorflow, , NumPy, pandas, JQuery,, PyTorch, Zustand, Figma

Technologies: Git, AWS , PostgreSQL, REST, OpenSearch, Docker, Terraform, Chart.js, MongoDB, Stripe, Socket.io, OpenCV, OpenAI, Sentry.io, Pinecone