

BERNARD OSEI AKOMANYI

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EDUCATION

Fisk University

Expected Graduation: May 2027

Major: Bachelor of Science, Computer Science

CGPA - 3.67 (Major GPA - 3.88)

Relevant Coursework: Introduction to Computer Science I, Calculus I, Data Structures & Algorithms, Embedded Systems for Robotics, Discrete Mathematics, Probability and Statistics

Technical Languages: Python(2yrs), Javascript(1yr), C++(1yr)

Frameworks & Tools: Figma, Express, Github, Google GenAI, AWS (Amazon Rekognition), NodeJs, React, Flask, TensorFlow, Pandas, MATLAB

EXPERIENCE & VOLUNTEERING

Fisk University

Nashville, TN

Peer Tutor, Introduction to Computer Science (CSCI 100)

August 2024 - Present

- Tutor **15** students weekly on computing fundamentals, including CPU functions, data storage, and operating systems
- Conduct hands-on labs, enhancing proficiency in word processing and data manipulation, leading to a **20%** boost in assignment grades
- Led study sessions that improved quiz scores by **25%**

Ckodon | Python, Express.js, Sentry.io

Ghana, Kumasi

Software Engineering Volunteer

October 2022 – June 2024

- Built **CRUD** API endpoints with **Express.js**, boosting data efficiency by **30%** and cutting query response time by **50%**
- Integrated error logging with **Sentry.io**, reducing response time to system errors by **40%**
- Developed a **Python** script that auto-generates **10** essential API files, reducing file creation time by **70%**

PROJECTS

Osbank | Next.js 14, Tailwind CSS, MongoDB, Node.js, Socket.io, Stripe

August 2024

- Engineered the frontend of a banking app with **Next.js 14**, achieving 95% user satisfaction in beta testing.
- Engineered a responsive UI with **Tailwind CSS** and integrated real-time updates using **Socket.io**, reducing page load time by **40%**
- Implemented secure transaction system with **MongoDB**, **Node.js**, and **Stripe**, managing over **20** transactions per minute with **99.9%** uptime

Campus Connect | Bcrypt, JWT, React, CSS

July 2024

- Developed a full-stack platform for student enrollment and scheduling, serving **1000+** students and staff
- Designed a responsive interface with **React** and **CSS**, boosting student engagement by **30%**
- Secured the platform with **JWT** and **Bcrypt**, enabling role-based access for students, teachers, and administrators

Game Gaze | TensorFlow, OpenCV, YOLOv8, KMeans

April 2024

- Engineered a football analysis system using **TensorFlow** and **OpenCV**, achieving **90%** player detection accuracy
- Implemented **YOLOv8** for real-time object detection with **95%** accuracy and **KMeans** for player segmentation
- Generated automated match highlights with **85%** accuracy using optical flow and perspective transformation

ACTIVITIES

- Tutor, Fisk University Computer Science Club
- Member, Google Developer Students Club
- Member, National Society of Black Engineers
- Member, Phi Eta Sigma National Honors

HONORS & AWARDS

- W. E. B Dubois Honors Scholar
- Ella Shepherd Moore Provost Scholar