Kwabena Bawuah

ELECTRICAL ENGINEER (EIT) · SUPPORT ENGINEER · UNIVERSITY OF MASSACHUSETTS

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Skills & Interests

Programming Languages	HTML · CSS · JavaScript · Java · C++ · MySQL · PHP · Assembly Language · C · Python
Tools and Frameworks	Verilog · Arduino · AutoCAD · Git · Google Cloud Platform · Flask · React
Interests	Software and Electrical Engineering · Computer and Network Security · Artificial Intelligence
Soft Skills	Problem Solving · Communication skills · Leadership · Team Player

Work Experience

Sentry (Sentry.io)   *Toronto, Canada*
SUPPORT ENGINEER   *Aug 2021 – Present*
- Provide unique solutions to customer's inbound technical requests regarding Sentry's products and SDK's in more than 30 coding languages
- Develop tools and technical documentation to streamline the support experience
- Route and Triage product bugs from support tickets and GitHub Issues to the appropriate engineering team

Volta River Authority (Hydro Generation Plant)
INDUSTRIAL HYDRO POWER INTERN   *May 2018 – July 2018*
- Conducted re-calibrations of the meters located in power supply transformers which resulted in the conservation of the machinery's life span.
- Worked with colleagues and superiors to troubleshoot transformer units in order to generate electricity for communities.
- Installed a new digital system by rewiring hydroelectric units, changing them from analog to digital hence reducing the ambiguity in readings.

Soft Masters
WEB AND SOFTWARE DEVELOPER INTERN   *Jun-Aug 2017 and Jun-Aug 2016*
- Developed websites for private companies to increase reach visibility using HTML, CSS and JavaScript
- Collaborated with software developers to create an application called Anansi that improved Ghana's addressing system.

Education

University of Massachusetts Amherst   *Massachusetts, USA*
MASTER OF SCIENCE - MS, ELECTRICAL AND COMPUTER ENGINEERING   *Sep. 2022 - Present*
- ST-AI-Based Wireless Network
- Computer Networks and Security Engineering

Carleton University   *Ottawa, Canada*
BACHELOR OF ENGINEERING: ELECTRICAL ENGINEERING   *Sep. 2016 - Apr. 2021*
- Modelling of Integrated Devices
- Fundamentals of Web Development

Harvard University
INTRODUCTION TO ARTIFICIAL INTELLIGENCE WITH PYTHON-EDX EDUCATION   *Completed: December 2020*
- Explored some of the ideas, techniques, and algorithms that are at the foundation of artificial intelligence.

Projects

Dynamic AI Chat Bot
PERSONAL   *August 2023*
- Led the development of a full-stack custom AI chatbot which provided a UI for users to train a bot on custom uploaded documents.
- Integrated the OpenAI API, Pinecone vector database and document embedding and retrieval processes to enhance the performance.
- Ensured data privacy by designing a 100% private solution where no data leaves the user's execution environment.

Cloud Based Circuit Simulator-Final Year
COURSE: 4TH-YEAR ENGINEERING PROJECT   *September 2020*
- Developed the full stack of the web application using HTML, JavaScript, Flask and Python.
- Constructed the algorithm to evaluate the user's input to produce requested values, graphs and circuit diagrams.
- Deployed and optimized the application on the Google App Platform.

Investigating Near-Earth Objects
COURSE: INTERMEDIATE PYTHON NANODEGREE   *December 2020*
- Used Python to explore close approaches of near-Earth objects (NEOs), using data from NASA/JPL's Center for Near-Earth Object Studies.
- Manipulated and represented data from structured files using Python.