## David Boateng

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### WORK EXPERIENCE

### Index Solutions – San Francisco, California (Remote) Feb 2020 – Sept 2021

### Web Scrapper

* Implemented API integration strategies for seamless data extraction from third-party platforms, significantly reducing manual data entry time.
* Developed and maintained efficient scripts using popular web scraping libraries/frameworks such as Beautiful Soup and Selenium, ensuring accurate and timely retrieval of targeted data.
* Collaborated with cross-functional teams to understand data requirements, translating business needs into effective web scraping solutions.
* Leveraged database systems and SQL to store and manage extracted data, optimizing data storage and retrieval processes.
* Utilized version control systems, particularly Git, to manage and track changes in the codebase, enhancing collaboration among team members.
* Contributed to the development of internal documentation and best practices for web scraping, API integration, and database management.

**Ferreti 5D Cinema** – Accra, Ghana **Nov 2021 – March 2022**

**Django Backend Developer**

* Led the Django backend development, architecting robust solutions with HTML and Bootstrap CSS to create Movie Recommendation Website. This project helps analyze the number of people willing to watch a particular set of movies in a day which helped boost their sales.
* Led the design and implementation of RESTful APIs, facilitating seamless communication between the frontend and backend, optimizing data flow and enhancing overall system performance.
* Leveraged Django ORM and SQL to design and optimize database systems, ensuring efficient data storage and retrieval processes.

**Lexy Web Designs** – Accra, Ghana **March 2022 – Dec 2022**

**Front-end Developer**

* Utilized Adobe Photoshop and Figma for wireframing and prototyping of web designs.
* Designed ecommerce car websites and company websites using React, Tailwind CSS framework, and JavaScript.
* Collaborated with team members to ensure high-quality and visually appealing web solutions.
* Implemented responsive design principles to optimize websites for various devices and screen sizes.
* Conducted testing and debugging to ensure compatibility and functionality across different browsers.
* Worked closely with clients to understand their requirements and preferences, providing tailored web solutions.
* Stayed updated with the latest trends and technologies in web development, including React, to enhance skills and contribute to innovative projects.

**ABC Tech Solutions** – Accra, Ghana **Feb 2023 – July 2023**

**React Frontend Developer**

* Spearheaded the development of interactive and responsive user interfaces using React, creating seamless and engaging web applications.
* Collaborated closely with UI/UX designers to transform design concepts into functional and visually appealing frontend components.
* Implemented state management and component lifecycle management in React, optimizing performance and ensuring a smooth user experience.

**Maven Trading** – Benoni, South Africa (Remote) **Sept 2023 - Current**

**Deep Learning Engineer**

* Engineered a sophisticated deep reinforcement learning model for Maven Trading, specializing in commodities and foreign exchange currencies.
* Implemented the model using the MetaTrader API for Python, enabling automated and intelligent trading strategies.
* Collaborated closely with the trading team to understand market dynamics and fine-tune the reinforcement learning model for optimal performance in various market conditions.
* Conducted rigorous testing and validation procedures to ensure the reliability and robustness of the developed trading model.
* Contributed to the documentation of the model architecture, training processes, and performance metrics, fostering transparency and knowledge dissemination within the team.
* Stayed abreast of the latest advancements in deep reinforcement learning and financial market trends, incorporating relevant insights into the continuous improvement of the trading algorithm.

Contact: [dickson.axiom@indexsolutions.org](mailto:dickson.axiom@indexsolutions.org) – Supervisor. Dickson Axiom, Data Analytics Manager

### CO-CURRICULAR ACTIVITIES

### University of Ghana, University of Ghana AI Club February 2022 – July 2023

### Club Member

* Lead research projects within the club, exploring new AI concepts and algorithms.
* Participated in community outreach programs and collaborated with local organizations to promote AI awareness.
* Conduct training sessions within the club to enhance members’ skills in areas such as machine learning, deep learning, and data science.

### St. Thomas Aquinas, Robotics Club September 2017 – September 2019

**Assistant Head Programmer**

* Mentored 5 high school students for 1 week and helped them design a Robotic Tour Guide.
* Supervised and evaluated group projects and weekly tasks.
* Participated in the Bravefaith National Hackathon (2017).

### SKILLS

* Advanced Proficiency in English, French
* Programming Languages (Proficient in Python, Java, C++, SQL, HTML, CSS, PHP, and JavaScript)
* Frameworks (Django, React, Bootstrap, JavaFX, Tailwind CSS)
* Graphic designing using software such as Figma, Canva and Adobe Photoshop
* Animations and 3D models engineer using Blender.

**EDUCATION**

**University of Ghana** **Accra, Ghana**

**BSc. Computer Science**   **Date of Graduation:** **July 2023**

Cumulative GPA:3.55/4.00

**St Thomas Aquinas Senior High School Cantonments, Accra General Science (\*WASSCE)**  **Sept 2016 – July 2019**

\***WASSCE** – West African Senior School Certificate Examination

\***Dean’s** **List** **Honors** – Awarded to students with GPA of 3.5 and above