GRACE ALIKO

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SUMMARY

I am a versatile software developer with a strong work ethic, natural curiosity, and a passion for continuous learning. Proficient in JavaScript and experienced in both frontend and backend development using related frameworks. Recognized for consistently delivering high-quality work and driven by a passion for problem-solving and efficiency improvements, with a keen interest in automation and AI-driven solutions.

EDUCATION

Kwame Nkrumah University of Science and Technology   *Sept 2020 -Aug 2024*

Bachelor's, Computer Science-First class honours.

SKILLS

- **Programming languages and libraries**: Python, TensorFlow, Karas, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, JavaScript,
- **Tools and Frameworks**: Jupyter, Flask, SQL, Git, Postman
- **Data Skills**: Data Cleaning, Data Visualization, Machine Learning Algorithms, Statistical Analysis
- **Soft Skills**: Collaboration and teamwork, communication, time management, problem-solving.

PROFESSIONAL EXPERIENCE

Research and Teaching Assistant   *Aug 2024 - Present*

Department of computer science, KNUST

- Prepare lectures and class activities focusing on the analysis of data structures and algorithmic techniques for a first-year class of over 500 students.
- Create and grade course assessments to ensure students understand key concepts in data structures and algorithms.

Safe Royal   *Feb 2022 – Jan 2023*

Full-Stack Developer, Remote

- Collaborated with a data analyst to design and implement a bespoke MongoDB database for a data collection survey initiative.
- Led the development of the database schema, ensuring it met the project's requirements and objectives for efficient data management.
- Engineered custom APIs to generate unique IDs for form submissions based on inputted information, significantly improving data organization and retrieval by 20%.

Research Intern   *Aug 2021 – Dec 2021*

Ghana Highway Authority -Ashanti

- Contributed to the development of the company's website by analyzing and digitizing hard copies of past projects, contracts, and related data.
- Extracted and synthesized key information from historical documents to create a comprehensive digital archive, improving accessibility and usability for stakeholders.
- Collaborated with IT and engineering teams to ensure accurate representation of project data and historical records on the website.

Zap Technologies   *Oct 2023 - Dec 2023*

  Frontend Developer, Remote

- Developed a visually appealing landing page for a tech startup using React and Tailwind, enhancing the company's online presence.
- Utilized Git version control systems to collaborate effectively with team members, ensuring smooth and organized development workflows.

PERSONAL PROJECTS

LEXARIQ

A Deep Learning Framework for Dyslexia Detection

- Collaborated with in a team of two to develop a mobile application using React Native, aimed at detecting dyslexia risk in children through multi-modal analysis.
- Designed and implemented three advanced deep learning models to evaluate various indicators of dyslexia:
    - Handwriting Analysis using image recognition techniques.
    - Word-based Gameplay Pattern Analysis to assess cognitive and linguistic patterns.
    - Eye-Tracking Data Analysis for detecting eye movement anomalies linked to dyslexia.
- Developed and managed databases with MongoDB, ensuring robust data handling and secure user authentication within a Node.js backend.

KNUST EXPRESSO

A Web App Streamlining the Request of Academic Letters

- Designed and developed a web application for streamlining the online request and delivery of academic letters at KNUST.
- Implemented front-end features using React to create intuitive and user-friendly interfaces.
- Developed back-end logic with Node.js and MySQL, ensuring secure and efficient server-side processing and database management.

PROFESSIONAL TRAININGS

- Machine Learning Specialization, a course by Andrew NG.   Coursera
- Deep Learning Specialization, Deeplearning.Ai   Coursera
- Data Science Professional Certification -MIT   Coursera
- AWS cloud Computing   AWS

LEADERSHIP AND VOLUNTEER WORK

Founder and Content Creator, Apex Computing (YouTube Channel)

- Established and managed a YouTube channel with instructional videos on programming, achieving over 600 views globally.

Campus Director, KNUST - Millennium Campus Fellowship (UN Initiative)

- Led a team in implementing projects aligned with UN Sustainable Development Goals, securing resources and fostering collaboration.

Course Representative, Computer Science Class of 2021

- Served as the liaison between students and faculty for four consecutive years, effectively communicating feedback and addressing academic concerns to enhance the student experience.