Ayomide Enoch Ojo

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Dynamic Full Stack Software Developer graduating in 2024, actively pursuing a challenging role as a Software Engineer. Recognized for problem-solving and expertise in algorithm optimization, cross-language compatibility, and computational efficiency. Proven track record in Computer Vision, Applied Machine Learning, and Artificial Intelligence, exceeding 90% in relevant coursework. Seeking opportunities to leverage proficiency in multiple programming languages, frameworks, and cloud technologies for impactful project delivery. Currently, I am ready to contribute creative solutions and drive success in a dynamic software engineering environment.

Experience / Employment

Computer Bio Informatics Research Internship

McGill University, Montreal, QC Apr 2023 - Aug 2023

- Worked in My University's Bio-Informatics Lab where I Engineered algorithms by leveraging the latest code bases and libraries, resulting in a significant reduction of running time from O(n^2) to O(n log n) leading to code which ran 84% faster.
- Read and broke down the documentation for libraries in R (ape and TreeDist), understood how they worked, then translated those libraries to Python, thereby expanding the cross-language compatibility and enhancing the lab's toolkit.

Computer Graphics Informatics Research Internship

McGill University, Montreal, QC Apr 2022 - Aug 2022

- Spearheaded the implementation of the K-Means algorithm in MATLAB, achieving an 80% improvement in computational efficiency and accuracy over previously implemented DBSCAN algorithm.
- Contributed to research within the computational caustics field, by reading research paper and translating the mathematical formula to usable MATLAB Code.
- Then produced comprehensive technical reports and documentation to effectively communicate research results. Which allowed other PhD students to implement their code more quickly and effectively.

Course Work in Computer Vision, Applied Machine Learning and Artificial Intelligence

McGill University, Montreal, QC Sep 2023 - Dec 2023

- Explored foundational concepts in image processing, including comprehensive studies on feature extraction, object recognition, image classification, and segmentation using neural networks. Additionally, delved into image rectification and depth analysis through the application of Homographies and stereo-image pairs Matching. With practical projects in Computer Vision Techniques.
- Completed projects in Applied Machine Learning, in supervised and unsupervised learning algorithms receiving 90% and up on all course assignments. Additionally, hands-on experience includes projects involving K-Means, CNNs, RNNs, LSTMs, GRUs, Transformer Architecture, and fine-tuning pre-trained models.

Software Engineering Competitions

Hack the North Hackathon, University of Waterloo, Waterloo, ON Sep 2022 – Dec 2022

- I developed and Implemented a Sentiment Analysis algorithm which scrapes Stock performance Data from news websites to make trades in a simulated environment within QuantConnect's environment using C++ and Python.

Code to Give Consulting, Morgan Stanley, Montreal, QC Sep 2022 – Dec 2022

- Consulting with Farmers in greater Quebec on Building websites which met Customer Specifications.
- Contributed to the website's backend development using Java bootstrapped with Spring Boot and ORM Hibernate. Utilized Postgres SQL to create and manage the website's database and Postman for comprehensive testing, ensuring a 14% reduction in the identification and resolution of potential issues.

McGill Physics Hackathon, McGill University, Montreal, QC Sep 2021 – Dec 2021

- Built a particle simulator using the vPython library to model masks' effect on COVID-19 particles.

Other: Mission Bon Accueil Food Distribution (*Jan 2023 – Jan 2023*), Frontline Construction Nova Scotia (*May 2023 – Aug 2023*), Pizza Bros Old Port Restaurant (*May 2022 – Nov 2022*), Efty Dishes Restaurant (*May 2023 – Aug 2023*)

Education

McGill University, Montreal, QC Sep 2020 – Apr 2024

- Bachelor of Arts in Computer Science with a Minor in Economics Graduating in April 2024.
- Undergraduate Coursework: Distributed Systems, Computer Architecture, Algorithms, Artificial Intelligence, Comparison of Learning Algorithms, Computational Theory, Operating Systems, Databases, Algorithms, Programming Languages, Comp. Architecture, Calculus III, Computer Vision, Applied Machine Learning, Applied Robotics, Computer Graphics and Software Development etc.
- Dobson Entrepreneurship Certification, AWS Cloud Practitioner Certification

Skills

- Expert skills: C++, C, Java, Objective-C, C#.NET, JavaScript, Ruby, MATLAB, Agile methods, React.JS, VS code, SQL, Blender, Unity, Firebase, AWS, Docker, RESTful APIs, MongoDB, ROS, Git, Postman, Azure, TensorFlow, Unreal Engine
- Languages: English, French and Yoruba