

# Mayokun Moses Akintunde

(204)-869-1025 | [akintudemayokun@gmail.com](mailto:akintudemayokun@gmail.com) | [Linkedin](#) | [GitHub](#)

## PROFILE

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Computer Engineering graduate passionate about technology, innovation, complex systems and solving complex business challenges. Proficient in cloud computing, embedded systems, digital signals and systems, computer vision, databases, and parallel processing. Possess strong communication and problem-solving skills, with experience in designing, writing, debugging and testing code effectively.

## TECHNICAL SKILLS

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**Technologies:** Java, Python, C/C++, SQL, MATLAB, Amazon AWS (EC2, ECS, RDS, S3, Cognito), Linux/Unix, CUDA, Docker, Open MPI, TensorFlow, OpenCV, Flask, Agile, Android Studio, Git/GitHub/Gitlab, JIRA.

**Relevant Course:** Web Developer Bootcamp Udemy, AWS Cloud Practitioner Udemy, Docker & Kubernetes Udemy, Software Engineering 1, Parallel Processing, Operating System, and Introduction to Database.

## WORK EXPERIENCE

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Database Engineering Intern (Engineering Aide II)	May 2023 - December 2023.
<b>Manitoba Hydro</b>	Winnipeg, Manitoba.

- Designed and developed a specialized database with Microsoft SQL Server to manage extensive power generation study data from PSS\E software for the Integrated Resource Planning Division.
- Developed a web server with Flask and designed a user-friendly interface using HTML and CSS to enable engineers store, access, and download automated reports and files (PSS\E software-compatible formats).
- Implemented an authentication system and session-based authorization to enhance the security and access/resource control of the web server.
- Regularly submitted progress reports to supervisors and maintained an up-to-date documentation for the database design and web server.

Engineering Aide I	May 2022 - September 2022.
<b>Greif Inc</b>	Winnipeg, Manitoba.

- Troubleshoot and configured devices to develop a local network architecture, incorporating Android tablets, MOXA, and a Server Panel to improve production documentation in the factory.

Student Experience Ambassador	Feb 2021 - June 2024.
<b>International College of Manitoba</b>	Winnipeg, Manitoba.

- Dispatch student status letters and transcripts via email or courier services.
- Deliver lessons, tutorials, and workshops on pre-arrival success strategies to >120 students per semester.

## EDUCATION

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Bachelor of Science in Computer Engineering	June 2024.
Price of Faculty of Engineering	Winnipeg, Manitoba.
<b>University of Manitoba</b>	

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## PROJECT EXPERIENCE

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Full Stack Engineer

April 2024 - Present.

### E-commerce App (Amazon Replica)

- Implemented AWS Cognito for user authentication and server authorization of client requests.
- Developed a containerized Flask server on AWS EC2 and an AWS RDS database for an e-commerce app, featuring product recommendations, shopping cart management, and payment processing, along with a user-friendly Android app.

Computer Vision Engineer

September 2023 – April 2024.

### Monitoring room occupancy

- Collaborated with peers and industry partner Antec Controls on a room occupancy system capstone project. Contributed to integrating ultrasonic, RGB and IR sensors to a Raspberry Pi-based system for real-time occupancy monitoring to optimize HVAC systems in critical spaces.
- Designed a door monitoring algorithm using YOLO V8 tracking feature to determine individuals entering or exiting a door using sequences of 2D images.

Full Stack Engineer & Scrum Leader

January 2024 – April 2024.

### Airline Reservation System

- Managed a team as a Scrum Master while developing a comprehensive Android airline reservations app, incorporating features such as booking, user authentication, flight search, seat selection, user profile management, payment system, and online check-in.
- Performed rigorous testing, including unit tests with stubs and mocks, integration tests, and system tests with Espresso to ensure compliance with client's requirements.

Computer Vision Engineer

October 2023 - December 2023.

### Image Processing

- Utilized load balancing techniques using Open MPI for parallel image processing (spatial filtering) with C++.
- Implemented CUDA Kernels and cuBLAS library for parallel image processing (spatial filtering) and conducted a comparative analysis of the distributed versus GPU methodologies using C++.

Embedded System Engineer

January 2023 - April 2023.

### Communication Device for Hard of Hearing Curlers

- Collaborated in a team to develop Skip and Sweeper devices to aid communication for deaf curlers. Led software development and integrated components such as buttons and potentiometers to the ESP32 microcontrollers.
- Designed one-way Wi-Fi communication (ESP-NOW) to transmit instructions from the skip to sweepers, displaying commands via LEDs devices on the sweeper's brooms.

## AWARDS

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- IEEE Ted Glass Award for Best Design Project – Capstone, 2024.
- Appeared on the Dean's Honor List (2019, 2020, 2021, 2023, and 2024).
- Susan Deane Memorial Scholarship Award at The International College of Manitoba.