

Mayokun Moses Akintunde

(204)-869-1025 | akintundemayokun@gmail.com | [LinkedIn](#) | [GitHub](#) | www.mayokun.dev

PROFILE

Computer Engineering graduate with applied experience in building geospatial web applications, embedded systems, and secure databases, delivering software solutions for utilities and government agencies.

TECHNICAL SKILLS

Technologies: Java, Python, C/C++, SQL, TypeScript (Vue/React)

Cloud / Infra: AWS (EC2, ECS, RDS, S3, Cognito), Docker, GitLab CI/CD

Embedded / Systems: ESP32, Raspberry Pi, Linux/Unix, Open MPI, CUDA

Databases & Tools: Microsoft SQL Server, PostgreSQL, MongoDB, Play Framework, Flask, OpenCV, Git, JIRA

PROFESSIONAL EXPERIENCE

Frontend Engineer	August 2024 - Current
Technosylva	Remote

- Rebuilt a wildfire simulation platform (www.firecast.ca) used by multiple provincial governments and agencies for a better user experience and migrating from leaflet to mapbox improving map experience by reducing metrics such rendering by 30%.
- Designed and built the frontend interface for a Wildfire Calculator for the Great Lakes Forest Fire Compact (GLFFC), enabling cross-border agencies to accurately compute key fire spread metrics.
- Trained on CI/CD practices by contributing to `.gitlab-ci.yml` workflows in GitLab, supporting smoother deployments and improved system reliability
- Currently building a full-stack geospatial software with Java Play Framework (backend) and Vue.js (frontend), delivering interactive map features.
- Currently contributing to the development of 4Casts, a public wildfire forecasting platform, enhancing data accuracy and transparency for decision-making during emergency response.

Database Engineering Intern (Engineering Aide II)	May 2023 - December 2023.
Manitoba Hydro	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 Grid Infrastructure Planning Dept..
- Developed a web server with Flask and designed a user-friendly interface using HTML and CSS to enable engineers to 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.

Mayokun Moses Akintunde

(204)-869-1025 | akintundemayokun@gmail.com | [Linkedin](#) | [GitHub](#) | www.mayokun.dev

PROJECT EXPERIENCE

Engineering Intern April 2025 – August 2025.

Botaplace (www.botaplace.com)

Winnipeg, Manitoba

- Contributed to the research and development team working on exploring large language models such as OpenAI API to create descriptions of products users want to sell by just a picture taken.
- Worked on integrating with the Meta API to boost advertisement of products for sellers.

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

- Led team to deliver Android booking app: authentication, search, seat selection, payments, and online check-in. Wrote unit & integration tests (Espresso).

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 LED devices on the sweeper's brooms.

EDUCATION

Bachelor of Science in Computer Engineering

June 2024.

Price Faculty of Engineering

Winnipeg, Manitoba.

University of Manitoba

AWARDS

- 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.

ADDITIONAL

- Driver's Licence: Class 5 Manitoba L — scheduled to obtain 5F; available for travel, relocation, and overtime.