

David Okonkwo

[Portfolio](#) | [LinkedIn](#) | [Github](#)

612 Bedford Highway,
Halifax, Nova Scotia
Canada.
(236) 788-7374
d.okonkwo@alustudent.com

SKILLS

BACK END DEVELOPMENT | Python • Node.js • MySQL • MongoDB • Redis

FRONT END DEVELOPMENT | ReactJS • JavaScript • Bootstrap • HTML • CSS • Sass

EMBEDDED SYSTEMS | Arduino • C/C++

MISCELLANEOUS | LEGO SPIKE • AutoCAD • Microsoft Office (Word, Excel, PowerPoint)

EXPERIENCE

WEB DEVELOPMENT |

Fees Generator App — *Wolverine Property Management* • FEB 2024

- Developed ReactJS frontend for Excel sheet uploads and downloads
- Automated monthly property fee calculations with Python scripts
- Integrated Flask framework for request routing
- Incorporated PostgreSQL for application database

TriviaGeo — *Trivia Questions Web Game* • JAN 2024

- Designed responsive user interface features using ReactJS
- Implemented an API to generate multiple-choice geography questions

RANGE — *Task Management Web Application* • DEC 2023

- Utilized Flask to handle routing and user authentication
- Implemented SQLite database to store and manage user records and data
- Integrated a live calendar feature, enhancing scheduling and visualization for users
- Designed user interface and enhanced user interactivity and experience using JavaScript

DIGITAL NOURISH AFRICA — *Web Application for Farmers* • DEC 2023

- Developed dynamic desktop web application interface using ReactJS
- Integrated weather API to dynamically display users' city weather data
- Implemented PostgreSQL to store user information
- Integrated a live location map using Leaflet JS
- Implemented functionality to send requests to microcontroller to control sensors
- Developed interactive platform for users to share, view, and like posts

EMBEDDED SYSTEMS |

Aladdin — *Wireless Menu-Order System* • OCT 2023

- Created a Wireless local area network (WLAN) and a captive portal using an ESP8266 to connect customers to the menu page
- Developed a system to make and display meal orders from the portal to an LCD

EDUCATION

AFRICAN LEADERSHIP

UNIVERSITY (ALU)

B.S., Software Engineering |

July 2026 | Kigali, Rwanda

G.P.A: 4.57/5

HONORS & AWARDS

2nd Place at Robotics Hackathon

| ALU | October 2023 | Kigali

Certified Lego Spike Training

Coach | CODERINA | August 2023

| Kigali

COURSEWORK

Web Infrastructure/Enterprise

Front-End Web Development

Data Structures and Algorithms

Low-level Programming

Embedded Systems

INTERESTS

Robotics • Fitness • Music
Production

