

# NATHAN LULENDO

183 rue Mutchmore, Gatineau, Québec | 3434639349

Nlulendo18@gmail.com

## OBJECTIVE

I am Nathan Ganga Lulendo, a Computer Engineer and a proud graduate of La Cité College. My primary expertise lies in web development and embedded software development. Additionally, I possess strong skills in data management and analysis. My goal is to apply my technical skills and passion for solving complex problems and developing innovative solutions.

## SKILLS AND ABILITIES

- Programming language: C/C++, C#, Python.
- Web development: .Net, Node.js, react, Laravel.
- System Administration: Linux, Windows.
- Scripting and automation: Bash and Python.
- Soft Skills: Strong written and verbal communication, effective time management, independent research, ability to seek clarification and assistance when needed.

## RELEVANT PROJECTS

### E-Commerce Web Application:

- Technologies Used: Express.js, React, MongoDB, Node.js, HTML, CSS, JavaScript
- Description: Designed and developed a full-stack e-commerce web application to facilitate online shopping experiences.

Impact: Delivered a comprehensive e-commerce solution that supports a wide range of functionalities, highlighting my ability to develop scalable and maintainable web applications.

### Intelligent Heating System Control Based on Human Presence

- Designed an embedded system to control a heating system that activates based on human presence using various sensors and a PSOC5LP board.
- Tools and Technologies: Embedded System Board: PSOC5LP by Cypress, Motor and Controller: 28BYJ\_48 stepper motor with ULN2003 controller, Sensors: HCSR04 ultrasonic sensor, TMP36GZ temperature sensor, Wireless Communication: ESP32, Programming Language: C

Impact: Created an energy-efficient heating system that activates based on human presence.

### Digital Signal Processing for Audio Signals with Sound Effects

- Description: Designed a test bench to apply various sound effects to a song through digital signal processing, specifically implementing a "Tremolo" sound effect.
- Tools and Technologies: DSP Board: TMS320C5505 eZdsp USB Stick from Texas Instruments, Programming Language: C

Impact: Created a functional test bench demonstrating practical DSP applications in audio processing.

## EDUCATION

Collège la Cité, Ottawa, Ontario

2024

Computer engineering

Relevant coursework: embedded system, numerical algorithms, applied artificial intelligence, QA, Distributed programming, Android and IOS applications development, applied Mathematics, Game development (Monogame)

**Web development Bootcamp course on Udemy:** Completed a comprehensive web development bootcamp covering all courses required to become a proficient full stack developer. The bootcamp included intensive direct training and projects focused on both front-end and back-end development.