Daniella Akpoguma

Ottawa, ON | (343)988-0355 | daniellaakpogumaa@gmail.com

GitHub: https://github.com/daniellaakpoguma

LinkedIn: https://www.linkedin.com/in/daniella-akpoguma-943b69238/

Education

Computer Engineering Technology   **Expected Graduation: January 2025**

Algonquin College, Ottawa, ON

- Dean's Honours List
- CGPA: 3.9 / 4.0

Technical Skills

- **Languages:** Java, Python, SQL, BASH Scripting, Socket Programming, Assembly language, C, C++, HTML5, CSS3, JavaScript, PHP, XML, R
- **Frameworks:** JUnit, jQuery, Angular JS, Bootstrap, Swing, JavaFX, Nana C++, OpenMP, Java Native Interface (JNI)
- **Tools:** UMLet, Draw.io, GNU/Linux Operating System, Command Line Terminal, PowerShell, MySQL Workbench, ERDPlus, Microsoft Office Suite, Wireshark, Cisco Packet Tracer, Eclipse, VSCode, Visual Studio, Vim, Git, GitHub, NI, PHPMyAdmin, Multisim, AsmIDE, Canva, Google Workspace, Windows Operating System.

Projects

- **Painting Portal** | *HTML, Bootstrap, Angular JS, PHP, MySQL*
  - Developed an e-commerce site for a gallery selling popular paintings of different periods.
  - The website allowed new users to create an account and returning users to sign in. Also allows for logging in and logging out, adding and removing paintings to their cart, checking out and storing payment information, and allowing users to view order history.
  - Use of PHPMyAdmin to create and manage databases storing user information.
- **CA: Cellular Automata, Turing Machine, Game of Life** | *Java, Swing, Git*
  - Developed a robust Java graphical user interface for three programs: Cellular Automata, Turing Machine, and Game of Life using Swing and Eclipse IDE.
  - This project involved designing and implementing an intuitive program that users are allowed to interact with, by setting rules that govern the programs.
  - The Turing Machine program consisted of a server that could host multiple clients, which was made possible using the java.net package to implement the TCP protocol.

- **Compiler Reader, Scanner, and Parser** | *C, CMakeLists.*
  - Designed and implemented a complete compiler for GoDKS, a general-purpose language inspired by the Go programming language.
  - The project aimed to facilitate efficient compilation and execution of GoDKS code, adhering to the language's syntax and semantics, using Finite Automata, Transition Table, and Recursive Descent Parsing.
- **Normal and Uniform Distribution** | *C++, Nana C++ Library, Git, CMakeLists.*
  - Developed a C++ graphical user interface using the Nana library, that generated a specific number of samples entered by the user and generated normal or uniform distribution.
- **Mean and Standard Deviation** | *C++, OpenMP, JNI, Git.*
  - Developed a C++ program to calculate the mean and standard deviation of numbers.
  - This program used parallel programming to divide the work between processors on the computer, and the Java Native Interface.
- **Credit Card Validation** | *68HC12 Assembly Programming*
  - Developed a credit card validation program using 68HC12 Assembly Programming instructions.
  - Using AsmIDE, created and tested software that will read a file containing Credit Card Numbers and then determine the number of valid and invalid credit card numbers that exist and display your results on the Dragon 12 Simulator's HEX displays.
- **File and User Management Menu** | *BASH*
  - Developed a script program that provides an easier way of managing user, group, file and directory properties and permissions in Linux, by simplifying it into a simple menu program with options indicating each user's choice.
- **Dead Prime Minister High School Management System** | *SQL, MySQL*
  - Developed a robust database for school information systems to manage students, guardians, courses, student enrollments, disciplinary actions, extracurricular activities and post-high school plans.
  - Used queries to manipulate data, and perform aggregate calculations.

Experience

Cashier – Canadian Tire   **April 2023 – Present**

- **Successfully manage my time** to balance and achieve both academic and work objectives and goals by juggling multiple tasks and meeting deadlines effectively.
- Developed **strong problem-solving abilities**, resolving customer inquiries, and finding solutions to issues promptly and efficiently.
- **Collaborated effectively** with a diverse team of coworkers, demonstrating excellent communication skills.