# Ajijolaoluwa "Jola" Ajayi

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## EDUCATION

**Bachelor of Computer Science (Honours)** **Sep. 2019 - Present**
Carleton University – Ottawa, ON. (G.P.A: 11.28/12.00).

- **Relevant Coursework**: Abstract Data Types & Algorithms, Fundamentals of Web Development, Human-Computer Interaction, Software Quality Assurance, OOP Software Engineering, Database Management Systems, Discrete Structures II.
- **Expected Graduation**: December 2023.

## SKILLS AND TECHNOLOGIES

- **Languages**: Java, JavaScript, Python, C++, C, Haskell, Prolog, HTML, CSS.
- **Database**: PostgreSQL, MongoDB, Mongoose.
- **Tools and Frameworks**: Node.js, Express, Git, GitHub, JUnit5, Cucumber, Qt C++.
- **Operating System**: Linux, macOS, Windows.
- **Others**: MS Office, UML diagrams.

## APPLIED PROJECTS

**Movie Database Website** **Dec. 2020**
Tools: MongoDB, Mongoose, Node.js, Express, Pug, Heroku, Github.

- Developed a movie database website that allows users to log in, register, follow and unfollow other users and celebrities.
- Used session cookies to implement authorization and authentication of users.
- Created dynamic web pages using **Pug** and **AJAX**.
- Built a public **JSON REST API** that supports HTTP methods (GET, PUT, POST and DELETE) using **Node.js** and **Mongoose**.
- Implemented a movie recommendation feature based on users' ratings of similar movies.

**Cranial Electrical Stimulation Device Simulation** (Pair-project) **April 2022**
Tools: Qt C++, Github

- Built a graphical user interface (GUI) using **Qt C++** to visualize the use of embedded software for a neuro-stimulation device.
- Designed use cases and diagrams, a **UML** class diagram, a traceability matrix and sequence diagrams to model the behaviour of the application.

**Electronic Store Application** **April 2020**
Tools: Java, JavaFX, Github

- Developed a **JavaFX** GUI application using the **Model-View-Controller (MVC)** paradigm.
- Displayed dynamic updates of product stock and the user's cart using ListViews.
- Implemented a feature for determining the most popular items in the store.

**Bookstore Database Application** **Dec. 2021**
Tools: Python, PostgreSQL, Github

- Designed a normalized bookstore database that minimizes data redundancy and maximizes integrity.
- Built a text-based interface in **Python** that enables users to perform insertions and deletions into a **PostgreSQL** database.
- Implemented features required by the bookstore owner such as searching, generation of sales reports and the addition of books using the **Google Books API.**

**Simple Robot Collision Simulator** **Dec. 2020**
Tools: C

- Developed a robot simulation in **C** where each robot runs on a separate thread and communicates with a server using the **User Datagram Protocol (UDP)**.
- Implemented a collision detection algorithm that enables robots to change direction upon hitting obstacles.

## AWARDS

- Received Carleton's $8,000 Entrance Scholarship for incoming undergraduates with High School GPAs of over 85%.
- Dean's Honours List, 3 years.

## REFERENCES

Available upon request.