

Jola Ajayi

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EDUCATION

Carleton University, Ottawa

Sep 2019 – Dec 2023

Bachelor of Computer Science Honours, GPA: 11.22/12.00.

Minor in Psychology.

- Dean's Honours List 2020, 2021 and 2022.
- Received Carleton's \$8000 Entrance Scholarship for incoming undergraduates with GPAs of over 85%.
- **Relevant Courses:** Data Structures & Algorithms, Web Development, Object-Oriented Software Engineering, Database Management Systems, Design and Analysis of Algorithms, Software Quality Assurance, Trends in Big Data Management, Human-Computer Interaction.

SKILLS AND TECHNOLOGIES

- **Languages:** Java, JavaScript, Python, C++, C, HTML.
- **Frontend:** React.js, CSS.
- **Backend:** Node.js, Spring, Spring Boot, PostgreSQL, JUnit5, Selenium, Cucumber, MongoDB, Mongoose.
- **Others:** Windows, Linux, macOS, UML diagrams.

PROJECTS

Crazy 8's Game

Jan. 2023

Tools: Java, React, Spring, Spring Boot, Selenium, JUnit5, Cucumber, GitHub.

- Engineered a real-time multiplayer web application with **Spring Boot** and **React**, enabling seamless communication among four players across multiple browser tabs playing Crazy 8's.
- Created an automated acceptance test suite with **Selenium** and **Cucumber**, effectively implementing Behaviour-Driven Development (**BDD**) principles to ensure adherence to user requirements.
- Developed unit tests with **JUnit5**, practicing Test-Driven Development (**TDD**) to ensure a reliable and robust codebase.

Movie Database Website

Aug. 2023

Tools: Node.js, MongoDB, Mongoose, Express, React, GitHub.

- Developed a full-stack web app using **Node.js**, **Express** and **React** that contains information about over 8000 movies from the IMDb API.
- Implemented intuitive interfaces for user registration, authentication, and profile management using **React** components.
- Designed and implemented a scalable cloud-based database structure with **MongoDB Atlas** enabling real-time data synchronization.
- Built a public **JSON RESTful API** that supports **CRUD** operations for movies, cast members and users.

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.

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 a bookstore owner such as searching, generating sales reports and adding books using the Google Books API.