

## Danial Ross

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GitHub: <https://github.com/danialross>

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## EDUCATION

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### Carleton University

BCS, Computer Science Major

June. 2023

Ottawa, ON

## PROJECTS

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### Car Rental Website | *Full Stack Programmer*

Dec. 2023 – Feb. 2024

GitHub link: <https://github.com/danialross/VehicleBookingSystem>

- Developed the front-end using React and Tailwind CSS, creating a responsive and modern user interface that dynamically populates views with data fetched from the back-end.
- Implemented a robust Ruby on Rails API to serve as a conduit between the React front-end and the MySQL database, managing data transactions and ensuring secure, efficient data retrieval and storage.
- Developed and refined Ruby on Rails code to efficiently query and update the MySQL database, ensuring data is optimally organized and updated for streamlined integration and display on the front-end.

### Online Store Website | *Full Stack Programmer*

Oct. 2023– Dec. 2023

GitHub link: <https://github.com/danialross/OnlineStore>

- Built an e-commerce platform's front-end using React and JavaScript, complemented by a Node.js backend for managing account information and interfacing with fakestoreapi.com to retrieve item information.
- Employed bcrypt for hashing and verifying user passwords to enhance security in both storage and authentication processes.
- Implemented middleware to authenticate users by validating their JWT before processing any requests to ensure that the user possesses the necessary rights before executing the request.

### Employee Database Website | *Full Stack Developer*

Sept. 2023 – Oct. 2023

GitHub link: <https://github.com/danialross/EmployeesDirectory>

- Utilized React to develop a website enabling the seamless addition, editing, and removal of employee records.
- Implemented a user interface with React Bootstrap, enhancing the website's design and user experience.
- Designed a dynamic and scalable Node.js backend, leveraging the power of Mongoose schemas to interface seamlessly with a MongoDB database.

### Piraten Kapern Game Assignment | *Student Quality Assurance Tester*

Sept. 2022 – Dec. 2022

GitHub link: <https://github.com/danialross/4004-F22-A1-101164692>

- Utilized Test Driven Development to create individual functions in Java to be used by the game logic of Piraten Kapern.
- Utilized Behavioral Driven Development in Java to translate the user's requirement of the Piraten Kapern game logic in plain English into executable and testable code.
- Constructed unit tests using JUnit Framework to check for the validity of individual functions.

## SKILLS

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**Programming Languages & Frameworks:** Proficient in Java, JavaScript, HTML, CSS, React, Node.js, Express.js and Ruby on Rails.

**Database Management:** Experienced with both relational (MySQL) and NoSQL (MongoDB) databases.

**Version Control Systems:** Skilled in using Git and GitHub for source code management.

**Testing Frameworks:** Familiar with JUnit for writing and executing unit tests.