

# Rodolfo Gil-Pereira

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## EDUCATION

### University of Calgary

Bachelor of Science in **Software Engineering** | 3rd Year Student

Calgary, AB

Sept. 2022 – Present

## RELEVANT PROJECT EXPERIENCE

### Shopping Website | Frontend, Fullstack, Team Member, React

Jan. 2024 – April 2024

- Designed and developed a shopping website using the React framework, featuring a functioning product catalog, shopping cart, and seamless page navigation.
- Incorporated user registration, login, authentication, and URL navigation protection to enhance security and user experience requiring 100% new visitors to sign up to shop.
- Designed API for fast and efficient communication with the backend, reducing frontend bloat by 20% and improving page load speed by 35%.

### Shopping Website Server | Backend, Fullstack, Python, Flask

Jan. 2024 – April 2024

- Developed a locally hosted server using Python Flask, designed the server to host product information and manage user login, registration, and authentication.
- Developed robust API to facilitate seamless communication with the frontend via HTTP protocols, leading to a 25% increase in data transfer speed.

### Disaster Victim Management Application | Fullstack, Java, SQL Database

Jan. 2024 – April 2024

- Designed and developed a terminal-based Java application integrated with an SQL database to streamline disaster response operations.
- Implemented features enabling government employees to efficiently manage supplies, log critical information, and facilitate connections between victims and their families in disaster-affected areas.

### Airline Flight Management App | Fullstack, C++, Team Member

Nov. 2023 – Dec. 2023

- Created an intuitive application for airline employees to efficiently manage passenger seat assignments and update passenger information for flights.
- Optimized the application's performance by enhancing dynamic memory management and removing memory leaks.

### Arcade Machine | Fullstack, Team Member, Circuit design, C++

Jan. 2023 – April 2023

- Designed and developed a mini portable arcade machine with a fully playable game using an Arduino microcontroller in C++ following OOP principles to run the game and utilize physical components within power consumption constraints.
- Integrated circuitry for the microcontroller to effectively utilize all necessary components, such as the screen, joystick, and buzzer. Efficient circuitry and software optimization resulted in 20% decrease in projected power consumption.

## WORK EXPERIENCE

### Tool Rental Associate

The Home Depot

April 2023 – Aug. 2024 (Split Term)

Calgary, AB

- Demonstrated strong customer service skills and technical knowledge of various tools leading to guiding customers to the right tool they need for their job and increasing sales.
- Provided maintenance and servicing for rental tools to ensure they were in optimal working condition
- Managed cashiering responsibilities, including processing transactions and handling payments efficiently

## TECHNICAL SKILLS

**Backend:** Java, Python, Flask, C/C++, SQL, MongoDB

**Frontend:** ReactJS, Vitejs, JavaScript, HTML, CSS

**Technologies & Tools:** PostMan, JUnit, Git, SourceTree

**Soft Skills:** Communication, Teamwork, Leadership, Adaptability

**Portfolio:** [rodolfogil.netlify.app](https://rodolfogil.netlify.app)