Rodolfo Gil-Pereira

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EDUCATION

University of Calgary — Calgary, AB
*Bachelor of Science in **Software Engineering** | 3rd Year Student* — *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.

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.

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.

WORK EXPERIENCE

Tool Rental Associate — April 2023 – Aug. 2024 (Split Term)
The Home Depot — *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