

Ghanem Ghanem

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EDUCATION

University of Windsor (Expected Graduation: August 2023)

Windsor, Canada

Bachelor of Computer Science (Honours) with Software Engineering Specialization (Minor in Mathematics)

SKILLS

- **Programming Languages:** Python, C, C++, Java, Kotlin, HTML/CSS, JavaScript, Bash.
- **Frameworks:** Django, Flask, Sanic, Spring Boot, Android Studio, GTK4.
- **Software Tools/Other:** Git, Gitlab, MySQL, Docker, AWS, VIM, REST APIs, Linux, JSON, CURL.

EXPERIENCE

Software Developer Intern

Waterloo, ON

Clearpath Robotics

May 2022 - Sept 2022

- Developed a web server using the **Python** asynchronous web framework **Sanic** (similar to **Flask**).
- Implemented **Gitlab CI** pipelines for end-to-end testing making sure all endpoints were working.
- Developed **Python** websockets and **JavaScript** websockets to have two way communication between the front-end (website) and back-end (server).
- Implemented a **Docker** image and **Bash** Script that would create a minimal container for aws-fleet accounts, this was used to deploy robot simulations.
- Created a website using **HTML**, **CSS** and **JavaScript**. This was used for my server to display logs and package data.

Software Developer Intern

Waterloo, ON

Clearpath Robotics

Jan 2022 - May 2022

- Coordinated with a team of developers on biweekly sprints to develop our next-generation builds, based on the functional package manager **Nix**.
- Developed **Python** programs that automate the workflow of building, testing, using and updating multiple software packages.
- Developed a **Python** program that automates the use of **Doxygen**, **Pydoctor** and **Sphinx** to generate documentation for **C**, **C++** and **ROS** programs.

Web Developer

Windsor, ON

University of Windsor

May 2021 - Sept 2021

- Developed and published Ebooks using Pressbooks. Customizing the site using **HTML**, **CSS** and **JavaScript**.
- Published a site for students using WordPress, with a combination of **HTML**, **CSS** and **JavaScript** to change the design of the site. Site was used to upload Ebooks and OERs for students.

PROJECTS

Django Store Website (Python Project)

[Github link](#)

- Created a website in **Django** that had three models, Products, Stores and Customers.
- Implemented a form for products, stores and clients. Forms were used to input values such as name, price, location, summary and description.
- Developed a function that would get all the objects in products and list them on the site, this was done using a combination of **Python**, **HTML** and **CSS**.
- Implemented a search algorithm to identify customers/products, this was done using **HTTP** Methods **GET** and **POST**.

Video decoder in C

[Github link](#)

- Developed a multi-threaded video decoder with audio using **C**, **FFmpeg**, **PulseAudio** simple API and **GTK4**.
- Implemented decoder using pthreads with a mutex lock. The video is played using **GTK4**.