**Raghav Sharma**

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**Education**

**University of Alberta**2nd year, Class of 2025

*Computer Engineering, BSc* 3 of 8 Academic terms completed

Cumulative GPA: 3.4/4.0

**Relevant Courses**: Tangible Computing in Python and C/C++, Digital Logic Design, Electrical Circuits

**Technical Skills**

**Programming Languages**: Python, C/C++, JavaScript, HTML, CSS

**Technologies**: Git, Excel/Sheets, Arduino

**Miscellaneous:** PyCharm, VS code, Atom, Adobe Premiere Pro

**Work Experience**

**Edmonton Nut and Bolt** **May 2022 – August 2022**

*Warehouse Associate*

* Performed quality and inventory checks with other co-workers on merchandise, reporting any inconsistencies or problems
* Maintained excellent physical ability to lift and push heavy materials upwards of 125lbs for 10+ hours a day
* Operated forklift to receive and load stock while complying with safety standards

**Barbecue Country** **May 2022 – August 2022**

*Assembly Technician*

* Assembled and tested commercial and residential Barbecues, fireplaces, and heaters with other co-workers in a timely manner while adhering to safety guidelines
* soldered new motherboards and sensors onto existing units that required repairs

**Personal Projects**

**Differential Equations Course (on YouTube):** [**Differential Equations Complete Course**](https://www.youtube.com/watch?v=3Gp_NznwnBk&list=PLqLVN36jkOlyT90stZgCCGrzl-8CmhV-3&ab_channel=RaghavDograSharma)  **December 2022 –**

* Created a quality video lecture series on YouTube pertaining to the Differential Equations course
* Learned how to teach in a concise way through multiple examples
* Developed Methods for how to effectively break down advanced mathematical concepts into digestible bite sized chunks of information

**Dog Classifier Website (Hackathon Project):** [**Pawggers GitHub Repository**](https://github.com/nopunindented/Pawggerss)**,** [**Pawggers Website**](http://pawggers.info/) **November 2022**

* Designed a website designed for Dog owners to be given notifications for when to feed, walk their dog
* Created an Account user login system in JavaScript where users could login and have their preferences saved
* Learned how to integrate several files of software written in multiple languages such as JavaScript, Python, and C# that were written by multiple engineers to develop a cohesive website

**Shopping Cart Simulator:** [**Shopping Simulator GitHub Repository**](https://github.com/rraghavssharma/Shopping-Simulator) **August 2022**

* Developed an interface in the output that has a basic login system that can save the progress of a user’s shopping cart
* Users can add, delete, multiply the number of a given item in their cart
* Learned how to effectively functionize Python code such that it can be used for other projects, or make it easier to implement more features in the future

**Personal Website:** [**raghav-sharma.com**](https://raghav-sharma.com/) **September 2022**

* Implemented a shifting rainbow animated background using only CSS,
* made the webpage responsive by using a CSS library *Skeleton*

**Leadership/Volunteer Experience**

**University of Alberta Hyperloop Club,** *Electrical/Software Team member* **September 2022 –**

* Designed a PCB that housed CAN-bus Internet Protocol which allowed the Pod to send data from various on-board sensors to a host monitoring computer
* Data Latency between pod and the host was minimized to 0.8 Mbit/second