

Raghav Sharma

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Education

University of Alberta

Computer Engineering, BSc

Cumulative GPA: 3.4/4.0

2nd year, Class of 2025

3 of 8 Academic terms completed

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](#)

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](#), [Pawggers Website](#)

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](#)

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](#)

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