

# Lucas De Biasio

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## Technical Skills

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

**Operating System:** Linux, Windows, Mac

**Software:** Visual Studio, MS Office, MATLAB, GIT/github, Quartus, ModelSim

**Hardware:** Breadboarding, Soldering, Oscilloscopes, Basic Electronic Circuits, Beaglebone

**General:** Communicative, determined, Proficient in French, fast learner

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## Technical Projects

### Personal Portfolio Website

**Oct 2023 - Curr**

- Used svelte and sveltekit to create a performant website that takes advantage of server side rendering to pre-render web pages and deliver optimised html to achieve a smooth viewing experience.
- Familiarised myself with configuration files as well as JSON files by manually configuring the framework with tools such as tailwind css.
- Gained a better understanding for web application architecture as well as routing systems.
- Used github issues and pull requests to simulate a more industry standard dev-ops experience.

### AI Question Generator – CMPT 276 SFU

**Oct 2023 - Curr**

- Integrated the PDF.js and openAI API in order to take in a PDF input, parse the content and return questions related to the PDF in either a multiple choice, true or false, or short answer format based on user preference.
- Set up Node.js framework to create a live http server for the web app to be displayed on.
- Used git version control to manage our project branches.
- Followed industry standard agile project management principles as a team in order to maintain effective communication and productive work time.

### Graduate Admission System – ENSC 251 SFU

**Oct 2022 - Dec 2022**

- Utilised C++ to create student classes, as well as domestic student, and international student child classes. Ensuring they are all abstract data types.
- Applied standard library ifstream, getline, and vectors to input student data from text files and store them for functional use.
- Implemented the merge sort algorithm to efficiently sort a vector of students by multiple properties such as CGPA, research score, and name, in  $O(\log(n))$  time complexity.

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## Other Work Experience

### Educator

**Oct 2022 - Present**

#### Lululemon Athletica

Surrey, BC, Canada

- Follows the principles of Dynamic Floor Coverage to ensure fast and effective service on the floor to educate customers, and maintain gold standards of service.
- Provided custom product education based on customer needs and wants in order to optimise satisfaction, and contribute to our store making 140% of our target sales for the month of October.
- Enrolled in over 24 hours of online learning modules to improve different communication styles, and learn how to relay the information guests tell me into open ended questions to further understand their individual set of needs.

### Instructor and Team Member

**Mar 2022 - Sep 2022**

#### EngKidz

Surrey, BC, Canada

- Developed childrens STEM classes using [thestemlaboratory.com](https://www.thestemlaboratory.com) and [pbskids.org](https://pbskids.org) to teach the students concepts such as hydraulics, energy, force, and aerodynamics.
- Led classes through visual, tactile, auditory, and kinesthetic activities and lessons to ensure all students understood the material by covering all four main types of learning
- Took inventory of over 300 project kits using excel spreadsheets to centralise the current material inventory, and identify any materials that are low, or out..

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## Education

### Bachelor's of Applied Science – Engineering Science

Simon Fraser University

**Sep 2020 - Current**

Burnaby, BC, Canada