

PROFESSIONAL SUMMARY

A third year McGill student majoring in mechanical engineering with a minor in software engineering, searching for internship opportunities for the summer of 2022. Visit my online portfolio using the QR code or link above.



EDUCATION

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| Bachelor of Engineering <i>McGill University, Montreal, Canada</i> | Major: Mechanical Engineering Minor: Software Engineering 3.54 / 4.00 CGPA | 09/2019 – 05/2024 |
| Pure and Applied Science <i>Marianopolis College, Montreal, Canada</i> | | 09/2017 – 06/2019 |

EXPERIENCE

BOMBARDIER AVIATION – LOADS AND DYNAMICS 01/2021 – 08/2021

Created tools for predicting loads on aircraft wings and fuselage using numerical methods and machine learning. This process included the following:

- Automating and improving existing conceptual load design tools in Python
- Developing physical interpretations for load prediction results
- Formally presenting and documenting all work throughout each project while using Mercurial version control

MCGILL ROCKET TEAM (MRT) 09/2019 – 08/2021

- Completed a JavaFX UI designed for tracking specifications of the rocket from the ground-station
- Won the design award for MRT's **Hackathon 2020** event

SKILLS

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|------------------------------|--|---|
| PROGRAMMING LANGUAGES | Python: TensorFlow, Pandas, Seaborn, Numpy, Sphinx Java: Software Development | Other: Matlab, Simulink, SPICE, LabView |
| SOFTWARE DEVELOPMENT | Version Control: Git, GitHub, Mercurial UML: Class / State / Sequence Diagrams Testing: Gherkin, Cucumber, Junit, Mockito, Postman Agile: Sprints, Issues, Milestones, etc. Framework: Spring | Web Design: Heroku, Netlify Front-end: JavaFX, HTML, CSS, JavaScript Databases: PostgreSQL, Heroku Build System: Gradle Code Generation: Umple |
| SOFTWARE | MS Office Suite, Google Suite | Windows 7 / 8 / 10 / 11 / XP / Vista |
| LANGUAGES | English – Fluent | French – Conversational |

PROJECTS

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|--|---|
| Grocery Store Application – Full Stack Project | 01/2022 - Present |
| ➤ A web and multi-platform Java-based application encompassing all aspects of software development listed above, including Agile methodology and Spring framework. | |
| Personal Websites | 11/2021 – Present (Consistently maintenance) |
| ➤ A personal front-end portfolio based in HTML, CSS, and JS: https://samuelvalentine.netlify.app | |
| ➤ A volunteer front-end website based in HTML, CSS, and JS: https://gracechurchverdun.com/synergy | |
| “ClimbSafe” - Software Application Project | 09/2021 – 12/2021 |
| ➤ A Java-based application showcasing the power of Umple code generation, JavaFX, as well Gherkin, Cucumber, and JUnit testing. | |