

MICHAEL MONTAGNESE

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Education

Queen's University Kingston ON	BASc in Computer Engineering Relevant Coursework: Performance Analysis; Software Specifications; Digital Systems Engineering; Software Quality Assurance; Machine Learning and Deep Learning; Awards: Recipient of the James L. Mason Cup for work with Queen's Space Engineering Team, Graduated on the Dean's Honour List with a 4.1 GPA;	09/2016 – 04/2021
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Experience

Investors Group Wealth Management	Security Engineer – Intern <ul style="list-style-type: none">Notable performance in security risk identification that has resulted in the resolution of over 400 incidents.Demonstrates a solid understanding in researching and analyzing log sources utilized for security monitoring, particularly security and networking devices including firewalls, anti-virus products, and operating systemEmploys the use of SIEM and SIM applications daily. (Azure)Streamlined automatic incident handling to reduce number of tickets for SOC team by 25%.	05/2021 – Present
One Design Sailing Academy Oakville ON	Web Manager and Sailing Instructor <ul style="list-style-type: none">Leveraged frontend optimization techniques to design and implement an event and project page for the Academy's website. This resulted in ~10% reduction in website content load time for desktop and mobile platforms. (HTML)Improved the maintainability of the website by implementing a central content management system. This resulted in a reduction of about 2 hours, for administrators to update the contents of the site. (Concrete5)Migrated the web store, to Ecwid's drop shipping system, resulting in an increase of merchandise sales.Implemented UX design principles like consistency and hierarchy which resulted in improved site functionality and user experience.Emphasized the importance of safety and proper conduct as a sailing instructor. I taught basic to racing sailing concepts for students ranging from 6 to 70 age.	06/2018 – 08/2018
Blackwell Toronto ON	Engineer Intern <ul style="list-style-type: none">Implemented and reviewed site drawings in autoCAD reducing wait times for clients down to 1 week. (autoCAD)Computed load calculations using Woodworks and manual calculation to assure of 150% load capabilities were achieved for renovations. (WoodWorks)Restructured company wide intranet to allow for ease of use by employees reducing time needed to find important items to ~ 2 seconds. (HTML, CSS)	09/2014 – 06/2015
Maple Leaf Sports & Entertainment (MLSE) ON	Sales Representative <ul style="list-style-type: none">Created organizational infrastructure and sale methods that allowed for 25% increase in sales, relative to other locations, in a consistent manner.Aided with storeroom distribution distributing up to \$1 Million worth of merchandise to allow for largest gross sales amongst different booths.Counted and verified cash and electronic income to assure number of sales aligned with the right amount of funds, to an accuracy of 95%.	05/2017 – 10/2019
Queen's University	Teaching Assistant for Principles of Design and Development <ul style="list-style-type: none">Create and organize lab session to assist student in understanding engineering projects.Assist with teaching students basics of machine learning.	01/2021 – 04/2021

Technical Skills

Coding Languages: Java, HTML, CSS, Python, Git, React Native, SQL, KQL

Other Skills: MATLAB, Amazon Web Services (AWS), Microsoft Azure, ServiceNow, Agile, Docker, Agile

Projects

Seet Geek Website

<https://github.com/mmont429/seet-geek>

- Employed agile scrum methods with team through daily stand-up meetings. **(Agile)**
- Extensive execution plan initiated with test case implementation.
- Developed full stack project implementing fluid front-end user interface with a python backend to control user data. Application supports account information and purchase history storage. **(HTML, Python, SQLAlchemy)**
- Website shipped and deployed for peer evaluation and user testing. **(Docker)**

Like Language Compiler

- Developed and tested a complete compiler language.
- Includes fundamental components such as scanner, parser, semantics, and coder to take user input convert to appropriate machine code.
- Organized group work distribution among 4 team members to ensure efficient and successful implementation of language features.

Pizza Finder Application

<https://github.com/mmont429/team5>

- Created a locally hosted website interface with user I/O. **(HTML)**
- Integrated google maps API and web scrapping libraries to scan multiple restaurant websites with 95% accuracy on the tester website. **(Python)**
- Achieved 3rd place at the Queen's Engineering Competition

Ovarian Cancer Mobile App

<https://github.com/mmont429/OvarianCancerApp>

- Developed mobile frontend integrated with web-based API and Cloud based IAM infrastructure. **(React Native, AWS)**
- Machine learning backend to determines with an optimization application integrated to achieve a neural network with minimum potential of 95% accuracy. **(Python)**
- Consistent Git communications and repository management for 100% of project documentation. **(GitHub)**

Extra-curricular

Sailing

- Former Ontario Sailing Team member
- Campaigned to compete for Canada in the 2020 Summer Olympic