

# MICHAEL MONTAGNESE

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## Education

**Queen's  
University  
Kingston  
ON**

**BASc in Computer Engineering**

**09/2016 – 04/2021**

**Relevant Coursework:** Data Analytics; Image Processing; Digital Systems Engineering; Software Quality Assurance; Machine Learning and Deep Learning; Algorithms

**Awards:** Recipient of the James L. Mason Cup for the Queen's Space Engineering Team;

## Experience

**One Design  
Sailing  
Academy  
Oakville  
ON**

**Web Manager and Sailing Instructor**

**05/2018 – 08/2018**

- 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.

**Blackwell  
Toronto  
ON**

**Engineer Intern**

**09/2014 – 06/2015**

- 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)

## Technical Skills

**Coding Languages:** Java, HTML, CSS, Python, Git, React Native

**Other Skills:** MATLAB, Amazon Web Services (AWS)

## Projects

**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 3<sup>rd</sup> place at the Queen's Engineering Competition

**Ovarian  
Cancer  
App**

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

- Developed webhosted frontend integrated with web-based API. (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