

DANIEL BUTTS

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Qualification Highlights

- Currently enrolled in the Computer Science (Mobile Computing) Program at Sheridan College, graduating December 2022.
- Languages / Web Technologies: C#, ASP.NET Core, C, Java, Spring Boot, Python, HTML, CSS, JavaScript, Swift
- Database Technologies: Firebase, Entity Framework, Room Persistence Library, PL/SQL

Employment Experience

Student Researcher

September 2020 – Present

Centre of Mobile Innovation, Sheridan College, Oakville, ON

- I am currently investigating how to perform anomaly detection on a mobile device's network traffic to try and determine if the device has been infected by malware.
- I am also in the preliminary stages of investigating 4G LTE network traffic with the hope that future student researchers can analyze the network traffic to make various predictions about the network.

Peer Assisted Learning (PAL) Leader

September 2019 – April 2020

Sheridan College, Oakville, ON

- Ran weekly study sessions for first year computer science students taking *Programming Principles*. The course focused on instructing students on the foundations of object-orientated principles using Python
- Ran weekly study sessions for the *Interactive Application Development* course, which teaches students how to build data-driven applications using object-oriented principles with C# and .NET Framework.
- Approximately 85% of students who attended my study sessions believed that they resulted in them achieving a higher grade than they would have received if they did not attend.

Education

Honours Bachelor of Computer Science – Mobile Computing

- Sheridan College; Oakville, ON
- GPA: 3.99/4.0
- Expected date of graduation December 2022

September 2018 – Present

Relevant Courses

- Mobile Device Application Principles, Enterprise Software Systems, Web Application Design, and Implementation

Academic Projects

Groupski

- The application was designed to assist teachers in facilitating peer to peer evaluations in the classroom. The teacher is given the ability to set up a classroom on the application, where students can join and use the application to give their feedback of other groups during their presentations.
- This application was developed using React Native and utilized Firebase to provide authentication and data storage.

Federal Election Simulation

- Needed to collect data for individual ridings, so it could be preprocessed and analyzed to predict the results of the 2019 Canadian Federal election.
- Developed a web scraper to collect data from the website www.338canada.ca, and then developed a Python script that formatted the collected data to make a prediction on the data.
- Accurately predicted the Liberal success and predicted the number of seats won by each party within 10% of the actual result.