

# Samarth Agarwal

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## WORK HISTORY

### Thales Group. Toronto, ON

*Software Developer Intern* / 05/2019 – 09/2019

- Pioneered the overhauling of the NetTracMT GUI from C++/MFC to an in-house micro-frontends toolkit using cutting-edge Web tech (**HTML5, JavaScript, TypeScript, Polymer**/Web Components, **PixiJS, RxJS**)
- Analyzed and improved various technological pitfalls in the current system that helped improve the performance by over 20%
- Facilitated customization of systems by encouraging software engineering team to adopt emerging standards such as **GIT** for software application development architecture and tools.

### University of Toronto - St. George Campus. Toronto, ON

*Junior Web Developer* / 05/2018 – 05/2019

- Designed an asset tracking system using JavaScript, Firebase and React for University of Toronto students and faculties, featuring real-time database logging capabilities.
- Proposed and worked on a campus wide automated facilities maintenance application deployed to successfully replace the existing resource-intensive multi-step failure processes at UofT.
- Developed iOS and Android apps using ReactNative for the UofT student population; to be implemented in the year 2020.

## ACCOMPLISHMENTS

### UofTHacks VII (2019-20) | President of Toronto's Largest Hackathon

- Led a team of 5 executives to organize Toronto's largest hackathon
- Winner of 2019 MLH Season

### Hack the North 2019 | Mentor of Canada's Largest Hackathon

- Mentored the winning team that made an app for internal navigation of public buildings

### UofTHacks VI (2018-19) | Winner of Smartcar and Telus Challenge

- Developed a Smart Dustbin using Azure, Watson, Google Cloud and IoT Hub that segregates waste into the correct bin.

### YorkU Hackathon | Top 5 teams

- Developed a solution to prevent road accidents, with a focus on the Sleepy Drivers. Implemented this using several APIs including GoogleRoutes, OpenCV and machine learning.

### Platterz University of Toronto Hackathon | Head Volunteer

- Developed a chatbot for tracking calories and nutritional data to come up with automated weight loss and meal prep suggestions.

## SKILLS AND LANGUAGES

- Extensive JavaScript and ES6 knowledge
- Experience with React, Redux and PixiJS
- **Databases and SQL**
- **JIRA**
- R
- GIT/BITBUCKET and shell scripting
- Python
- Java
- C/C++
- Design patterns and principles including MVC, MVVM
- Swift and iOS Development

## EDUCATION

### University of Toronto - St. George Campus

Toronto, ON November 2020

### Bachelor of Science:

Mathematics, Computer Science and Statistics CS  
GPA: 3.7

#### • Relevant Coursework:

- Statistics for Machine Learning
- Data Analysis
- Introduction to Databases
- Statistics for Deep Learning
- Software Design and Engineering
- Introduction to Artificial Intelligence