

# SAMARTH AGARWAL

Ottawa, ON · agarwalsamarth06@gmail.com · (705) 943-2122 · [samarwal.github.io](https://samarwal.github.io) · [github.com/samarwal](https://github.com/samarwal)

## EXPERIENCE

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### Trend Micro

May 2020 - August 2020

*Software Engineer Intern*

Ottawa, ON

- Built RESTful APIs in accordance with the API specification to automate the management of the atom feeds
- Implemented endpoint authentication in Spring Boot that utilized SHA-256 hashing stored in AWS Secrets Manager to limit access to the internal costumers
- Developed and executed a test plan for the APIs that resulted in 15% reduction of errors prior to production deployment

### Ford Motor Company of Canada

September 2019 - December 2019

*Full Stack Developer Intern*

Waterloo, ON

- Implemented a new OTA data transport protocol on the device/client side leading to 33% reduction in the encoding overhead
- Optimized the search functionality by 20% in the production portal to search for events efficiently
- Incorporated client-side feature requests to thereby improve the portal's performance

### Treasury Board of Canada Secretariat

January 2019 - April 2019

*Web Developer Intern*

Ottawa, ON

- Worked on an open source framework (WET) led by Government of Canada to build a web application that integrates 3 government central agencies budgeting and planning systems
- Developed web pages using HTML, CSS (Bootstrap) and JavaScript with ASP.NET MVC to improve the existing functionality by 60%
- Utilized SQL Server Management Studio to build a database according to the business requirements

### Algoma Steel Inc.

May 2018 - August 2018

*Software Analyst Intern*

Sault Ste. Marie, ON

- Extracted and analyzed the data to test the dependencies between OS and application versions with mainly focusing on their compatibility with windows 10 resulting in company-wide migration from windows 7 to 10 in 3 months
- Worked with the QA team to test the organizations newer web applications (KPI data, Data Management Info system) using unit/integration tests
- Automated the shutdown/start-up of dev, QA and prod servers in case of a power outage which reduced the processing time by 80%

## EDUCATION

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### University of Ottawa, Ottawa, ON

September 2017 - December 2021

BASc in Software Engineering (Co-op) - Entrepreneurship and Management Option

GPA: 3.5

**Programming Coursework:** Algorithms and Data Structures, Operating Systems, Software Engineering Design Principles, Software Quality Assurance, Analysis and Design of User Interfaces

## SOFTWARE ENGINEERING PROJECTS

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### TD Advisor Utilized: TD's Da Vinci API, Java

- An android app that helps user manage their financial portfolio and advises them with: Financial, Mortgage and Trading opportunities

### On-Demand Home Repair Services App Utilized: Firebase database and authentication, CircleCI, Java

- An application that allows the user and service provider to create their profiles and then lets user book a service provider for a specific data/time based on price, rating and availability

### Emodio Utilized: Google Cloud Natural Language Client Library, Python 3.6

- An application that allows the user and service provider to create their profiles and then lets user book a service provider for a specific data/time based on price, rating and availability

## SKILLS

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**Languages:** Java, Python 3.6, KnockoutJS, Groovy, PowerShell, jQuery, SQL, HTML 5, CSS 3

**Technologies:** AWS, RabbitMQ, Microsoft Azure, Apache Hadoop, Splunk, SQL Server, VMWare Client, PostgreSQL, PowerCLI