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SAMARTH AGARWAL

https://github.com/samarwal   https://samarwal.github.io

EDUCATION

Ottawa, Canada	**University of Ottawa**	**Sept 2017 – Dec 2021**

- **Major:** Software Engineering Co-op, BASc
- **Certificate (Minor):** Entrepreneurship and Management
- **Programming Coursework:** Algorithms and Data Structures, Operating Systems, Software Engineering Design Principles, Software Quality Assurance, Analysis and Design User Interfaces

EMPLOYMENT

Full Stack Developer, Intern	**Ford Motor Company of Canada, Waterloo, Canada**	**Sept 2019 – Present**

Ford Analytics Division (https://corporate.ford.com/homepage.html)

- Implemented a new OTA data transport protocol on the device/client side leading to 33% reduction in the encoding overhead
- Optimized the search functionality in the production portal to make it 20% more efficient using Java and KnockoutJS
- Incorporated client-side features and made unique authentication for each endpoint thereby improving the application performance
- Leveraged knowledge: in Full Stack Web development (Agile workflow), Java, JIRA, REST API's in Spring framework, Apache Hadoop, KnockoutJS, Splunk, SQL Server, jOOQ, Git, Virtual Box(Ubuntu), debugging in IntelliJ, Chrome Developer Tools

Web Developer, Intern	**Treasury Board of Canada Secretariat, Ottawa, Canada**	**Jan 2019 – April 2019**

Expenditure Management Sector (https://www.canada.ca/en/treasury-board-secretariat.html)

- 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
- Build and updated web pages using HTML, CSS (Bootstrap) and JavaScript with ASP.NET MVC which improved the functionality by 60%
- Created data models using SQL Server Management Studio in order to visualize and analyze the data requirements needed to support business processes
- Leveraged knowledge: in Git version control, programmed in C#, HTML, CSS, JavaScript(jQuery) using Visual Studio Professional IDE, SQL Server

Software Analyst, Intern	**Algoma Steel Inc., Sault Ste. Marine, Canada**	**May 2018 – Aug 2018**

Algoma Infrastructure Team (https://www.algoma.com)

- 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)
- Automated the shutdown/start-up of dev, QA and prod servers in case of a power outage which reduced the processing time by 80%
- Leveraged knowledge: in PowerShell, Regression Tests, VMWare Client, PowerCLI, Desktop Central

SOFTWARE PROJECTS

Personal Website: https://samarwal.github.io (for additional information and projects)

TD Advisor App
- TD Advisor is an android app which helps user manage their financial portfolio and advises them with: Financial, Mortgage and Trading opportunities
- Utilized: TD's open source Da Vinci API, Java

Emodio
- A python-based GUI that uses sentimental analysis to record conversation and generate feedback real-time to be able to better understand a conversation for certain groups of people
- Utilized: Google Cloud Natural Language Client Library, Python

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

SKILLS & HACKATHONS

Software: (*proficient*): Java, Python 3.6, HTML 5, CSS 3, Git, Unix (*familiar*): C#, KnockoutJS, PowerShell, jQuery, SQL, XML, PHP
Hackathons: Participated in UottaHack, DeloitteHacks, Hack the North, CarletonU Hacks