

Samarth Agarwal


Software Engineering Student

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Education

2017-09 - 2021-12

Bachelor of Applied Science in Software Engineering (Co-op)
University Of Ottawa, Ottawa, Canada

- Entrepreneurship and Management Option
- Professional Engineers Ontario (PEO) Scholarship (\$1000)

Experience

2019-01 - present

Web Developer Intern
Treasury Board of Canada Secretariat, Ottawa, Canada

- Worked on an open source front-end framework called Web Experience Toolkit (WET) led by the Government of Canada to build a web application that integrates 3 government central agencies budgeting and planning systems
- Built 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 the business processes

2018-05 - 2018-08

Software Analyst Intern
Algoma Steel Inc., Sault Ste. Marie, Canada

- Extracted and analyzed the data to test the dependencies between Operating Systems and application versions with mainly focusing on their compatibility with windows 10 resulting in company-wide migration from windows 7 to 10 in 2.5 months
- Worked with the team to research, configure and test the organization newer web applications (KPI Data, Management Info System, Proving Management System, SPS)
- Automated the shutdown/start-up of development, quality assurance and production servers in case of a power outage (PowerShell, VMware Client, PowerCLI) which reduced the time-taken for the whole process by 80%.

Languages

Java, Python 3.6, HTML 5, CSS 3, JavaScript, PowerShell

Technologies

Firebase, VMware Client, Docker, Visual Studio, Android Studio, Git, IIS 7, SQL Server Management Studio 2017, Blender, Desktop Central

Extra-Curricular

- Hackathons & Robotics
- Attended University Of Ottawa Hackathon and completed the Google Cloud challenge
 - Placed 20th out of 250 teams at the world championship level of the VEX robotics competition held in Kentucky, USA
- Self-Directed Learning
- Used Udemy and edX to supplement the computer science education

Projects

Emodio

- A python based GUI that uses sentiment analysis to record conversations and generate a feedback realtime to be able to better understand a conversation or daily interaction for certain groups of people
- Utilized the Google Cloud Natural Language Client Library for Python to train the model

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 date/time based on price, rating and availability
- Integrated Firebase database and authentication
- Implemented CircleCI to produce and run the unit test cases

ChatApp Android Application

- ChatApp is a basic chatting Android app that helps user to chat with other users using their email address
- Incorporated Firebase within the application