

# Divneet Singh

COMPUTER SCIENCE · STATISTICS · MATHEMATICS · BUSINESS

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## Education

### University of Toronto

HONOURS B.Sc., SPECIALIST (CO-OP) PROGRAM IN MACHINE LEARNING AND DATA MINING

April 2022

## Skills and Tools

### Languages:

R, HTML, CSS, SQL, Python, Java, Git/SVN, NumPy, SciPy, Visual Basic, JavaScript, C/C++, VBA Scripting, JSON, Frameworks: Angular, Node.js, Flask, RESTful, ReactJS

### Tools:

Microsoft Office, Adobe Proprietary Software, SDLC, Scrum/Agile Development, XML, Visual Studio, Flask, Power Platforms (PowerBI, Apps, Flow), CSV, Eclipse, Wing, Matplotlib, Terminal, DB Browser, Hadoop

### Relevant Courses:

Big Data, Machine Learning, Software Development and Design, Statistical & Data Analysis, Web Applications and Databases, Linear Regression, Regression Analysis, Statistics, Data Structures/Algorithms

## Experience

### Ministry of Children, Community and Social Services, FRO, OPS

Toronto, Canada

WEB DEVELOPMENT ASSISTANT

May 2021 - August 2021

- Redesigned and rebuilt webpages, forms, and interfaces considering AODA compliance; this assisted people with accessibility needs
- Introduced and trained new applications/technologies to the team; this optimized workflow and increased productivity by 50%
- Followed SDLC to gather requirements, develop, test and release a Court Search tool application saving the client teams 1 hour weekly
- Developed and automated multiple client and employee reports using macros and SQL to monitor efficiency and optimization for QA team; saving analysts 2 hours weekly
- **Skills:** SQL, Visual Basic, HTML, CSS, Various Packages
- **Tools:** LearnON, Microsoft Office, SharePoint, Captivate

### University Health Network

Toronto, Canada

IM/IT ANALYST

January 2019 - July 2019

- Pulled patient data from Crystal Reports and automated the creation of multiple operation reports for use on SharePoint using Visual Basic and R for data analysis; on average saving the data analysts 1 hour daily
- Using macros and Visual Basic, created a tray request system allowing for better and more organized communication and transportation between inventory staff and OR staff
- Developed an automatic graphing and communication system for late finished surgeries for nurses and surgeons to examine and comment on regarding their possible mistakes and improvements; deployed using PowerBI
- Using Visual Basic, created a communication tool to monitor the transportation of OR instruments more efficiently; using SharePoint
- Developed a high aggregate level patient data report using Crystal Reports for sharing on Power BI to visualize surgical floor demand, allows for a better understanding of the bed demands without compromising patient data
- **Skills:** R, SQL, Visual Basic
- **Tools:** Crystal Reports, ORSOS, Microsoft Office, Power BI, SharePoint

## Projects

### Course Webpage | [github.com/DivneetSingh26/Course-Website](https://github.com/DivneetSingh26/Course-Website)

FEBRUARY 2020 – APRIL 2020

- Created a course website containing student & instructor login accounts, course info, lectures, assignments, grades and anon feedback
- Students are permitted to view grades, submit anonymous feedback to particular instructors and remark requests
- Instructors are permitted to view all the student marks, remark requests and anonymous feedback submitted to them, enter new marks for individual students and view and update the marks for the remark requests; performed analysis on student data with R
- **Skills:** R, MySQL, Python, CSS, Javascript, HTML
- **Tools:** Visual Studio, DB Browser, Flask

### Unix Shell App | [github.com/DivneetSingh26/Shell](https://github.com/DivneetSingh26/Shell)

OCTOBER 2020 – DECEMBER 2020

- Used Agile development cycle to make a Unix-like Shell and used SVN to manage and share code among team members
- Incrementally developed the application with fluctuating requirements from client
- The Shell performed all the various commands with files and directories similar to Git or SVN
- **Skills:** Python
- **Tools:** Visual Studio