MARK SAVIN

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A creative thinker, effective communicator with strong analytical skills, detail-oriented and proficient at maintaining professional relationships.

Skills

Programming

Java

C.

MATLAB

Python

JavaScript

HTML/CSS

React

Unix Shell Scripts

SQL

Firebase

Data Structures

Algorithms

Operating Systems

Windows
Unix/Linux

Software

Microsoft Office Eclipse Visual Studio Code Jupyter Notebook Figma

Professional Skills

Project Management Detail Oriented Dedicated Team Player

Education

Bachelor of Engineering (B.Eng.): Software Engineering York University – Lassonde School of Engineering

April 2021

Work Experience

Shipping and Receiving

PerkinElmer - Bolton, ON

May 2017 – Sept. 2017

- Entrusted with crating mass spectrometers, ensuring safe and secure packaging for transport.
- Supervised co-workers, instructing them how to perform tasks and procedures safely and efficiently.
- Took the initiative to reorganize inventory bins, thus facilitating location of specific items.

Engineering Documentation Intern

May 2016 – Sept. 2016

PerkinElmer - Bolton, ON

- Uploaded and updated company documents through supply chain management software (Epicor).
- Communicated with the company's vendors to ensure their products were RoHS compliant.
- Edited laboratory manuals and company documents to improve readability and followed-up with the authors of these documents to confirm the text was factually correct and up to date.

Projects

Hospital Communication System

Sept. 2020 – Apr. 2021

Capstone – Project Manager/Scrum Master

- Developed a web application using React for physicians and nurses to communicate with one another via text message, to improve their productivity in the workplace.
- Organized sprint planning meetings and turned high level user stories in the product backlog into more detailed tasks for the sprint backlog. This process made it easy to identify the sprint goal, so the team had a clear objective in mind.
- Led sprint review meetings to assess the quality of work that was done. Assessed team members' strengths and weaknesses, to assign tasks that were well suited for the individual, which led to an increase in productivity and quality work.
- Designed and implemented a database schema, in MySQL, that would capture the complex communication network in hospitals.
- Used Formik to get values in and out of form state, create validation and error messages, and handle form submission.
- Developed a notification system that enabled users to send, read, and delete messages. Firebase was used to store and retrieve those messages using CRUD commands.
- Webpages were made mobile responsive with the aid of Flexbox.

Linear Least Squares Regression

Sept. 2020 - Dec. 2020

Machine Learning

- Trained a linear predictor of varying degrees to determine which degree minimized the square loss over the entire dataset (empirical risk minimization).
- Loaded the data into MATLAB, selected varying degrees of the polynomial from 1 to 30, and computed the empirical square loss on each learned function.
- Incorporated a regularization parameter to balance between the model's complexity and how well the model fit the data.
- Was able to conclude which degree and regularization parameter minimized the square loss over the entire dataset.