Jayesh Khullar

3rd Year Machine Learning & Data Mining Student

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Third year Machine Learning and Data Mining student at the University of Toronto Scarborough actively searching for a co-op position. I am thrilled to apply my passion and programming experience to analyze, design, and develop the most advanced software. My greatest strength is software design, this enables me to efficiently develop and test my programs.

SKILLS

TECHNICAL:

Languages: Python, Java, C++, GoLang, HTML5, CSS3, SQL, JavaScript, R, Git, SVN, MongoDB
Programs/OS: Windows, Linux, GitHub, Gitlab, Eclipse, VSCode, RStudio
Testing: Unit Testing, JEST (JavaScript Testing), Python Unit Testing

SOFT SKILLS: Effective written and verbal communication skills, Teamwork, Dependability, Adaptability, Leadership, Problem-solving, Creativity

EXPERIENCE

University Health Network/SickKids – Downtown Toronto
Software Developer Jan. 2019 – Aug. 2020

- Worked in a team of four Software Developers to design and implement solutions to data centric problems
- Worked both in a Kanban environment to develop web apps for clinical research and individually to create various tools for department use and to support the web apps
- Responsible for deploying web apps and databases to the development server for testing and demonstration purposes as well as overseeing other team members' projects
- Technologies used include Git, GitLab, Go, Python, HTML, CSS, JavaScript, JSON, MariaDB, SQL, MongoDB, Unix/Linux, Bash, SDAPS, LaTeX, Windows, Microsoft Office Suite
- Used MongoDB Queries extensively to migrate cluttered patient data from MySQL server for easier access to Researchers
- Developed Web Application using GoLang (backend) for The Cardiovascular Department to Store/Edit/Retrieve Patient Data in an organized manner
- Researched handwritten text recognition and used Pytesseract, and SimpleHTR to train a Neural Network to recognise handwritten text
- Demonstrated ability to learn quickly and be adaptable as a variety of different tools were used and gained exposure to new languages and frameworks

PROJECTS

Functional Class Webapp 2020

- Designed and developed a responsive webapp from the ground up using HTML5, CSS3, and JavaScript for the front end, and Python, and Flask framework for the backend
- Responsible for the design of the database using industry standard best practises
- Performed intensive functional tests on the webapp, and database using automated Python scripts

Phonebook 2018

- Designed a Phonebook application with the Single Linked List data structure using Python which can store, retrieve and remove contacts
- Implemented with single linked nodes to ensure data is correctly stored in alphabetical order with the use of while and for loops to insert the contacts

Array Manipulation 2018

- Designed methods with an approach to Object Oriented Programing using Java that took in an array of integers, and sorted them from negative to positive using an algorithm in O(n) time
- Demonstrated knowledge in SVN version control to update and edit files using SVN on a remote PC

Projectile Motion Calculator 2017

- Constructed a Projectile motion calculator with C++ which solved specific dynamics problems
- Integrated C++ as a basis to build the program with pointers by properly allocating memory to increase program efficiency
- Tested with numerous dynamics problems to ensure complete solutions to problems when deployed to users

EDUCATION

University of Toronto Sept. 2017 - Present
Candidate for BSc, Statistical Machine Learning and Data Mining Stream

Related Courses

- Introduction to Computer Science I & II
- Software Design
- Introduction to Databases and Web Applications
- Introduction to the Theory of Computation