PREET PANCHAL

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EDUCATION

Ontario Tech University | *September 2018 – Present*
Honours Bachelor of Science (HBSc), Computer Science
Coursework: Computer and Software related Courses
cGPA: 4.18/4.3, President's List

TECHNICAL PROFICIENCY

Programming: Python, C++, C, Java, HTML, CSS, JavaScript, SQL, R, C#, .NET
Databases: PostgreSQL, SQLite, MongoDB Basic Knowledge
Web Frameworks: Flask, React Library, Node.js, Express
Software: Visual Studio Code, RStudio, Atom, Notepad++, Microsoft Office

WORK EXPERIENCE

May 2020 – August 2020
AMPHENOL CANADA CORP.
Quality Assurance Intern / Toronto, ON

Worked as an intern and completed testing, debugging, and managed the process of electrical components primarily used in the military and aerospace sector.

- Developed and debugged testing cases for electrical connectors, modules and fibre optical cables using C and HETOS.
- Utilized the error-detection algorithm to minimize error repairing time and prevent fault production to ensure all electrical components are being tested efficiently and safely.
- Created technical documentation following tests to inform clientele about the results.

Additional Learning Points: CNC, Dip Soldering Machine, Terminal Crimping Machine

September 2019 – April 2020
MEIO - UOFT
Web Developer / Toronto, ON

Revamped the complete website for MEIO and increased efficiency and future scalability by refactoring the existing code.

- Created optimized user-friendly website that increased user-clicks by 40%.
- Fixed bugs and qualitative errors enhancing the web functionality and speed.
- Published the website on a secure server using FileZilla Client.

PROJECTS

Completed December 2020
PlanetX-TBM GUI
C#, C++, OOP, Arduino

Developed a GUI C# application for a Tunnel Boring Machine (TBM) to communicate with an external device and map out the TBM's coordinates, speed, direction, depth and pressure underground.

- Created a simple testing device that is able to act as a GPS monitor for the TBM as it is constructing a tunnel. Any user is able to communicate with the device and control the TBM.
- Participated in "The Boring Competition".

Completed August 2019
GRADEGOALS
Java, HTML, CSS, JavaScript, SQL

This is a simple grade calculator that allows you to set your personal grade goal in a course and calculates how much you will need for each assessment to achieve your grade goal in the course.

- Designed and programmed an end-to-end website for students to predict the marks they would need in the future assignments to achieve their expected grades.
- Added an option for students to import/export data where the program accepts the input and then outputs the numerical grades students would need on specific evaluations to achieve a specific grade. This greatly helped improve the user interaction.

Completed April 2019
CSCB20 COURSE WEBSITE
Python, Flask, SQLite, HTML, CSS, JavaScript

Designed and programmed complete user-friendly website targeted for students and professors to interact for all course work at the University of Toronto.

- Developed a dynamic and interactive website creating a space for multiple functions, tools and materials increasing efficiency of non-verbal communication and academic success throughout the course.
- Allows for all course syllabus, material, announcements and students' marks all on one website creating a simple and professional interaction for both student and professor users.

Completed June 2018
SPACE BLASTER
Python, Pygame, OOP, Arduino

Programmed a multiplayer split screen space game on Python using the Pygame library. Accomplished the game's objective of shooting meteors through OOP and collision detection.

- Created two controllers for the gameplay connected using Makey Makey and Arduino.

Additional Projects: TicTacToe-Ai, Connect-Four, WC-Clone, Caesar-Cipher, Word-Search, FindHelp Consulting Study-(R), Terminal Calendar (All can be viewed on my GitHub.)

HIGHLIGHTS

TEAM 188 MENTOR
2014 – Present
Inspiring young adults to engage in the field of STEM by designing, manufacturing and competing with a Robot in FIRST Robotics Competition.

ASA DATAFEST @ UOFT
May 2019
Participated in the 2019 DataFest at UofT and acquired essential skills in Python Pandas and RStudio.

OTU "MINI-MINI" HACK WINNER
March 2019
Designed and presented a futuristic patent technology "Eyes Aligned" to improve driver safety and engaging in a project that benefits everyone around the world.

COMMUNITY LEADERSHIP AWARD WINNER
October 2018
Awarded community scholarship for demonstrating positive, active leadership role and involvement in the community.

LIFELABS SCHOLARSHIP WINNER
July 2018
Awarded scholarship for exemplifying LifeLabs' values of caring, knowledge, and action. Based on grades, leadership and extracurriculars.