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| |  |  | | --- | --- | | **Harsukh**  **Deol**  [**hk4deol@edu.uwaterloo.ca**](mailto:hk4deol@edu.uwaterloo.ca)  [**github.com/harsukhdeol**](https://github.com/harsukhdeol)  [**codepen.io/harsukhdeol**](https://codepen.io/harsukhdeol) |  | | **SKILLS**  **Development**  JavaScript, Python, Java, HTML, CSS, React, Redux, Node.js, Bootstrap, JQuery, Three.js, C++, Dynamo, Visual Basic, Git, Npm, Webpack  **Design**  Adobe Photoshop, Adobe Illustrator, Adobe XD  **AWARDS**  **Gold medal** (2018) & **Silver medal** (2017)Architectural Design  Peel Skills Challenge  Created 3 floor plans, site plan and elevation drawing with Revit (2018) and AutoCAD (2017)  **Top 10 Finalist**  Deca Regionals - Principles of Finance (2015)  **EDUCATION**  **Lynda**  Learning Node.js  Bootstrap 4 Essential Training  Learning 3D Graphics on the Web with Three.js  **FreeCodeCamp**  Responsive Web Design  JavaScript Algorithms and Data Structures  **University of Waterloo**  Honours Mechanical Engineering, Bachelor of Applied Science  Sept 2018- present |  | | **PROJECTS**  **React Shopping Website (React.js, Bootstrap)**   * Coded and designed a fashion shopping website from scratch using React.js and Bootstrap * Integrated PayPal sandbox to buy products and receive verification of purchase   **M&M Sorting Robot (C++, leJOS)**   * Designed and built a machine that reorganized M&Ms by color while playing music * Programmed a robot with a color sensor and gyrosensor to scan the color of an M&M and rotate a platform to drop the M&M to the corresponding cup * 3D printed and laser cut parts designed in Solidworks   **Interactive CSS Room (HTML, CSS)**   * Used only HTML and CSS to design an isometric room that played animations when specific elements are clicked   **Personal Websites (HTML, CSS, JavaScript, React.js, Three.js)**   * Used APIs to create Recipe Book App, Random Quote Generator * Created Markdown Previewer, Goal Tracker and Weather App with React.js * Developed websites about biodiversity, quantum cryptography, and graphic design   **Games (Javascript, C++)**   * Coded a number game in JavaScript that displays numbers quickly and keeps score of how many times the user types the correct number * Created single player rock-paper-scissors game to play against the computer * Used C++ to develop a game with obstacles and power-ups where the player navigates a maze to find the hidden gem   **Robot Obstacle Course Program (Java, leJOS)**   * Programmed a robot to scan and navigate a colorful obstacle course by using color, gyro, and ultrasonic sensors   **Vector Calculator (Java)**   * Developed a calculator that inputted cartesian and geometric vectors and calculated vector operations (dot product, cross product, unit vector, etc.)   **Graphic Design and Digital Art (Photoshop, Illustrator)**   * Created 16+ artworks with digital editing, painting and typography * Designed event posters for 7+ clubs (including DECA and the hackathon) * Managed social media for 3 clubs (DECA, hackathon, Junior Achievement) * Created the cover art and page layouts for the school yearbook   **Harry Potter Game (Visual Basic)**   * Coded several minigames (Sorting Hat, Potions, Dueling, Quidditch)   **EXPERIENCE**  **Revit Dynamo Programmer** *– DEI & Associates Inc.*  MAY 2019 - AUG 2019   * Automated routine drafting and engineering tasks with Dynamo, by using Revit API and Python to create scripts * Implementation of scripts saved about 20 hours per project * Worked independently and problem solved with both mechanical and electrical departments to troubleshoot and debug code   **Event Planner -** *MSS Hackathon* MAR 2018 - MAY 2018   * Led 1-hour long workshops for over 100 middle and high school students (including MIT, Scratch, and Spheros) * Organized the first hackathon by simultaneously managing administration, assigning job, developing workshop plans and creating agendas   **Marketing Executive -** *DECA*  SEPT 2015 - MAR 2018   * Taught ½ hour business lessons to students and critiqued presentations, leading the chapter to win 13 more awards than the previous year * Professionally presented to judges at competitions and to over 50 parents, staff and students at open houses * Analyzed past competition questions to develop lessons and worksheets for current students |

## Mississauga Secondary School’s Hackathon - Project Lead | Peel District School Board

### **September 2017 – April 2018**

### **Managed project proposals, marketing strategies, workshop planning, mentorship, recruitment, delegated work to various sub teams with deadlines and progress records**

### **Spearheaded two workshops on the day of the event: introduction to Scratch and MIT app inventor**

### **Served as an event coordinator to volunteers and staff ensuring timely and precise execution of event activities and monitored all 150 participants for enthusiasm and purposeful learning**