JAY BHATASANA

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Skills

Languages: Java, C#, VBA , HTML/CSS
Developer Tools: Visual Studio, VSCode, Excel VBA, Arduino
Relevant Courses: Management Science Concepts, Intro to Computer Programming

Coding Projects

Fractal Generating Software | *C#, .NET Framework, VS Studio* $\sim 25h$
- Developed a software that generates Julia fractals with custom colour palette of given complex equations on **Visual Studio** using **C#**
- There are multiple methods of user input including inputting complex equations, clicking coordinates on the Mandelbrot set, or using pre-selects
- User-friendly **interactive features** are embedded such as zooming and translating

Decision Support Tool | *VBA, Excel, Visual Studio* $\sim 40h$
- **Lead designer and developer** for team project developing a tool to assist a senior UWaterloo student manage and organize aspects of their Final Year Design Project
- Project required **front and back end development** of various user interactive features using **VBA** and Excel(no formulas) giving client various functionalities such as a dynamic calendar

Smartblinds Device | *Arduino, C/C++, 3-D Modeling* $\sim 20h$
- Constructed and programmed device that **automates blinds** by turning them accordingly with additional features such as a locking feature and an LCD displaying state of blinds (open/close)
- Device is operated using an **Arduino** micro-controller, and programmed using **C++**

Personal Profile Website | *HTML/CSS, Javascript, Bootstrap, VSCode* $\sim 20h$
- Developed a personal profile website using **HTML, CSS and Bootstrap** to display past projects
- There are interactive and automated features such as carousel developed using **Javascript**

Experience

Math/Science Tutor Sept 2019 – Mar 2020
MATHMAGICIAN INC - Brampton, ON *Part-time*
- Tutoring students between the grades of 2 and 12 in **math and science**
- Preparing additional material for the students for additional practise within the center
- Assigning and grading homework for each student

Education

University of Waterloo Waterloo, ON
B. Applied Science. Management Engineering *Sept. 2020 – Present*
Waterloo President's Scholarship | GPA: 3.93