

Saad Mukhtar

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SKILLS

Languages: Java, C, Python, JavaScript, Racket, HTML/CSS, PHP
Tools: Git/Github, VSCode, Ubuntu, Wordpress, MySQL
Frameworks: JQuery, Bootstrap, React

PROJECTS

Birdie - Java

- Built a 2D Runner game using **Applet**, which was inspired by the mobile game called Flappy Bird
- Implemented animations using the **Runnable** library, and user controls using **Key**, **Mouse**, and **ActionListener**
- Developed a collision system which tracks when the images of birds and pipes collide, resulting in a loss for the user

EasyWebDev - HTML / CSS, JavaScript / JQuery

- Web development learning platform consisting of live code editors, where users can practice, and write HTML, CSS, and JavaScript to see an output in real time

Humans Vs Zombies - Java

- Invented an autonomous simulation consisting of Humans and Zombies in a 2D environment
- Designed characters with unique characteristics, behaviours, and strategies using **Abstraction**, **Polymorphism**, and **Object Oriented Programming**
- Constructed a user interface consisting of various controls over the simulation using **Java's GUI**

Path Visualizing Game - JavaScript

- Coded a game which uses dykstra's Algorithm to find the shortest path between two points

EXPERIENCE

President, Popsockets

Oct 2018 – Jan 2019

- Led my high school business class of 30 students to launch a non-profit venture
- Created a business plan, organized and guided finance, retail, and advertising teams

Mentor & Volunteer, Local MPP's Civic Engagement Club

Sept 2016 – Jun 2020

- Organize and help setup events that take place in the local district
- Supervise activities, stations, and mentor other students volunteering

LICENSES & CERTIFICATIONS

Software Engineering Virtual Experience Program Participant, JP Morgan Chase & Co.

Dec 2020

- Implemented a chart for a user's dashboard to identify stock correlations in *Python*
- Improved the client-side web application to automatically update data from the server application to the chart
- Adjusted data feed by generating a live graph using *Perspective*, JPMorgan Chase's visualization component

EDUCATION

Candidate for Bachelor of Computer Science

University of Waterloo, Term 1B

Expected Graduation 2025