






# ISSHANA MOHANAKUMAR

FIRST YEAR COMPUTER SCIENCE

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## SKILLS

### Programming

JavaScript | HTML/CSS | Java |  
Python | Django | Bootstrap 4

### Tools & Deployment

Git | GitHub | GitHub Pages |  
Netlify | PythonAnywhere

### Other

Photoshop | Illustrator | Adobe XD  
| After Effects | Premiere Pro |  
Microsoft Office

### Soft Skills

Creativity | Leadership |  
Teamwork | Fast Learner

## WORK EXPERIENCE

### Academics Tutor

Jan 2019 - Present

Taught Math, Computer Science,  
French and Science to children  
ages 9 - 16.

## INTERESTS

- Web design/development
- Game design/development
- Artificial Intelligence & Machine Learning
- Sports

## EDUCATION

University of Waterloo

BACHELOR OF COMPUTER  
SCIENCE

Sept 2020 - May 2025

## PROJECTS

### BAKABOT | Dec 2020 - Present

JavaScript, Node.js, Discord.js, Puppeteer, Jimp

Designed and developed a multi-purpose Discord Bot that uses **image manipulation** to alter avatars and **web scraping** to display game statistics. Currently being used in multiple servers with over **3000** users.

### MOVE IT! | July 2020

Python, Django, HTML, CSS, Bootstrap 4

Designed, developed, and deployed a fitness and wellness **social-networking platform** designed to connect like-minded people. Users can **create accounts**, post blog posts, read posts by others, and change account information.

### PERSONAL WEBSITE | Dec 2020 - Present

JavaScript, HTML, CSS

Designed, developed and deployed my personal website to showcase my projects and provide a place where people could learn more about me.

### FLAPPY BIRD AI SIMULATION | Nov 2020

Python (Pygame)

Developed a Flappy Bird clone and a simulation that trains an AI to learn how to play Flappy Bird using the **NEAT algorithm**. The simulation displays the process of the AI learning to play.

## COMMUNITY

### VOICE OF OUR SISTERS

Technology Head | July 2020 - Present

- An organization that aims to raise awareness about struggles Indigenous women face.
- Designed & developed the website and managed the other tech-related aspects.

### TALL PINES RETIREMENT HOME

Volunteer | May 2019 - Present

- Volunteering by communicating and spending time with seniors.
- Designed and managed events including weekly bingo, trips to nature parks, holiday parties, and various dinners.

### VEX ROBOTICS & CODING CLUB

President & Founder | Sept 2019 - June 2020

- Developed weekly lessons and support for my school's coding club members including a final project showcase for members. Over **40** members.
- Helped design algorithms and build our two robots in my school's VEX Robotics club.

### VARIOUS VARSITY SPORTS

Captain/Member | Sept 2016 - June 2020

- Played on many varsity sports teams including soccer (co-captain), ball hockey, cross country, track & field, cross country, flag football and table tennis.