Dhanika Botejue

dhanika.botejue@gmail.com • (226) 505-8825 • [GitHub](#) • [LinkedIn](#)

EDUCATION

Cameron Heights Collegiate Institute | IB Student **|** Kitchener, ON   **Sept 2024 - June 2028**
Relevant Courses: Computer Technology (Arduino/C, Computer-Aided Design, Raspberry Pi): Grade: 98%
Club Involvements: Coding-Robotics executive (weekly lessons), FBLC competitor, Chess competitor, Badminton team player

EXPERIENCE

Private Python Tutor | Remote   **May 2025 - Present**
- Taught 50+ Python programming lessons to beginners (ages 10 and up), interactively covering core concepts.
- Designed customized lessons with **hands-on exercises**, **mini-projects**, and **real-world analogies** to reinforce learning.
- Tracked student progress with incremental challenges, from basic syntax to complex logic (loops, functions, error handling).
- Integrated **project-based learning**, culminating in a text adventure game combining all concepts
- Adapted teaching methods for different learning styles (visual, kinetic) using tools like **Turtle Graphics** for engagement.

PROJECTS

[ReadBuddy](#) | Python, OpenCV, FastAPI, React.js, Next.js, Tailwind CSS **|** RythmHacks **Top 3 Overall**   **Oct 2025**
- Created an **eye-tracking personal reading tutor** that helps early readers by detecting struggles in real-time, providing definitions and pronunciation support.
- Designed a polished user interface with React.js and Tailwind CSS that motivates children to keep reading.

[Goodminton](#) | Python, Node.js, React.js, Next.js, Tailwind CSS, YOLO **|** IgnitionHacks **$200 Prize Winner**   **Aug 2025**
- Developed an AI-powered badminton match analyzer leveraging YOLO and motion tracking to detect shuttlecock trajectories and record rally scores live, allowing users to play badminton with a **virtual court and net.**
- Delivered a real-time, responsive scoreboard using Next.js, Tailwind CSS, and WebSocket streaming with the team.

[YouTubeTranslate](#) | Python, Flask, SQLite, HTML, CSS, JavaScript   **July 2025 - Aug 2025**
- Developed a **full-stack web app** that translates YouTube videos into other languages using Python (Flask, Whisper, gTTS) and integrates seamless video/audio processing with FFmpeg, reducing language barriers for **50+ language pairs**.
- Designed a user-friendly interface (HTML/CSS/JS) with secure login (SQLite sessions).

AWARDS

- NeoDev League 2025 **"Third Best Overall"** out of ~70 participants.
- RythmHacks 2025 "**Third Best Hack Overall**" out of 65+ participants.
- IgnitionHacks 2025 "Best Use of Roboflow" **$200 Award** out of **160+** participants**.**
- CEMC 2025 Pascal Contest: 121/150 **(Top 9.5% of 25,000+).**
- CEMC 2024 Gauss Contest: **1st place school-wide (Top 10% of 13,000+).**

CERTIFICATIONS

CS50's Introduction to Artificial Intelligence with Python | Harvard University, Cambridge   **July 2025 - Nov 2025**
- Optimizations, Machine Learning, Neural Networks (**Tensorflow**), Natural Language Processing (NLTK), **OpenCV**

CS50's Introduction to Computer Science | Harvard University, Cambridge   **April 2025 - July 2025**
- C, Algorithms, Memory, Data Structures, Python, Artificial Intelligence, **SQL**, HTML, CSS, JavaScript, and **Flask**.

CS50's Introduction to Programming with Python | Harvard University, Cambridge   **Jan 2024 - June 2024**
- Functions, Variables, Conditionals, Loops, Exceptions, Libraries, Unit Tests, File I/O, Regular Expressions, and OOP

TECHNICAL SKILLS

Languages: C, JavaScript, Python
Technologies: Bootstrap, CSS3, HTML5, Flask, OpenCV, MongoDB, SQLite, Tensorflow, Numpy, Scikit-learn, Arduino
Tools: Git, Arduino IDE, Tinkercad, Onshape, Roboflow