

# Dhanika Botejue

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## TECHNICAL SKILLS

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**Languages:** C, JavaScript, Python, Scratch

**Technologies:** Arduino, Bootstrap, CSS3, HTML5, Flask, Google Gemini API, Roboflow, SQLite, Whisper

**Tools:** Arduino IDE, Git, Onshape, Tinkercad, Visual Studio Code

## EXPERIENCE

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### Private Python Tutor | Remote

May 2025 - Present

- Taught foundational Python programming to beginners (ages 10+), covering core concepts through structured, interactive lessons.
- 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).
- Developed a **10-lesson curriculum** that boosted student confidence in coding fundamentals.
- Integrated **project-based learning**, culminating in a text adventure game combining all concepts (variables, loops, conditionals).
- Adapted teaching methods for different learning styles (visual, kinetic) using tools like Turtle Graphics for engagement.

## PROJECTS

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### [Goodminton](#) | Python, Next.js, Tailwind CSS, YOLO, Roboflow | 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.

### [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

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- CEMC 2025 Pascal Contest: 121/150 (**Top 9.5% out of 25,000+**).
- CEMC 2024 Gauss: **1st place school-wide (Top 10% of 13,000+)**.

## CERTIFICATIONS

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### CS50's Introduction to Computer Science | Harvard University, Cambridge, MA

April 2025 - July 2025

- Learned C, Arrays, Algorithms, Memory, Data Structures, Python, Artificial Intelligence, SQL, HTML, CSS, JavaScript, Flask, and Cybersecurity.

### CS50's Introduction to Programming with Python | Harvard University, Cambridge, MA

Jan 2024 - June 2024

- Mastered Functions, Variables, Conditionals, Loops, Exceptions, Libraries, Unit Tests, File I/O, Regular Expressions, and Object-Oriented Programming.

### Python for Beginners | University of Moratuwa, Sri Lanka

Jan 2023 - Aug 2023

- Learned Python fundamentals (variables, loops, functions), advanced programming (OOP, file I/O), and software development (unit testing) through structured projects and algorithmic problem-solving.

## EDUCATION

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### Cameron Heights Collegiate Institute | Kitchener, ON

Sept 2024 - June 2028

*Pursuing IB Diploma Program*

**Relevant Courses:** Computer Engineering Technology (Arduino/C, Computer-Aided Design)