

Penuja Hansith

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PROFILE

- Programmer and Tech student driven to build tech that solves real-world problems. I thrive in hands-on development from full-stack web apps to engaging games and robotics integration. Fast learner, self-driven, and obsessed with delivering impactful solutions.

PROJECTS

- **Digital Record Room** Remote 2025
Flask, SQLite, HTML/CSS
 - **Client:** Developed for the Moratuwa Divisional Secretariat Office to digitize and streamline their record-keeping process.
 - **Record Management:** Built a secure system to digitize, organize, and retrieve institutional records, improving access efficiency.
 - **Backend Design:** Implemented REST APIs with Flask and Jinja2 for dynamic rendering.
 - **Authentication:** Integrated user roles, session handling, and login security.
 - **Search System:** Built search and advanced filters for rapid lookup.
- **2D Real-Time Strategy Game** Remote 2024
Python, Pygame
 - **Game Engine:** Built core logic for unit selection and live combat simulation.
 - **AI Behavior:** Programmed basic enemy behaviors.
- **Google-Themed Portfolio Website** Remote 2025
HTML, CSS, JavaScript
 - **Design:** Created minimalist, responsive personal site inspired by Google's visual system.
 - **Structure:** Built About, Images, and Contact sections with mobile support.
- **Arduino 4-Legged Spider Robot (Collaborative Project)** Remote 2025
Arduino, Servo Motors, C++
 - **Hardware Assembly:** Participated in assembling the four-legged spider robot and servo setup.
 - **Team Collaboration:** Worked alongside others who handled control programming and movement logic.
 - **Testing:** Assisted with hardware testing to ensure proper walking motion.
- **RPG Fighter Game** Remote 2024
Python, Pygame
 - **Gameplay Mechanics:** Developed player-controlled combat system with real-time attack, health tracking, and animations.
 - **State Management:** Implemented finite-state machine (FSM) for smooth transitions between idle, attack, and damage states.
 - **Graphics Integration:** Used Open-source sheets for immersive visual feedback.
 - **User Interaction:** Designed intuitive controls and responsive UI elements for an engaging player experience.

EDUCATION

- **Ananda College** Colombo, Sri Lanka 2019–Present
G.C.E. Advanced Level Studies — Ongoing
- **Mahinda Rajapaksha College** Homagama, Sri Lanka 2019
G.C.E. Ordinary Level Completion

TECH STACK

- **Languages:** Sinhala, English
- **Programming:** Python, SQL, HTML, CSS
- **Frameworks:** Flask, Pygame
- **Tools:** VS Code, PyCharm

CERTIFICATIONS

- IIT Professional Certificate: Python for Beginners
- HackerRank Python Basic Certificate

INTERESTS

- Game Development, Robotics, Back-end Development