

Swayam Sachdeva

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EDUCATION

Western University

Honours BSc Computer Science

London, ON

Sep. 2022 – Apr. 2026

WORK EXPERIENCE

Senior Robotics Instructor

Honours BSc Computer Science

Brickworks Academy, London, ON

Sep. 2022 – Apr. 2026

- Taught a group of **8-10 kids** the **basics of programming** with lego robotics.
- Managed classrooms, fostered teamwork, and **ensured safety** during hands-on robotics projects.
- Provided **individualized support** for students, **adapting teaching methods** to diverse learning needs.

PROJECTS

Web Developer

Redshift INC.

Apr. 2023 – Jun. 2023

HTML, CSS, JS

- Collaborated closely with organization managers to **conceptualize and plan a functional, visually appealing site design** that aligned with the company's brand identity.
- Translated design concepts into a fully functional website using HTML, CSS, and JavaScript, ensuring **seamless navigation and responsiveness across various devices**.
- Implemented interactive features and animations, enhancing user engagement and delivering an intuitive browsing experience.

Project Developer | Assistant Manager

Western University

Nov. 2022 – Apr. 2023

Python

- Collaborated within a developer team to create an **image detection A.I. model emulating a player** in a video game.
- Devised a Python-based **path-finding algorithm** that generated inputs for the A.I. model to follow.
- Led and **directed a team of three developers** in the execution of path-finding solutions.
- Collaborated with team members to research, write, and **publish a research paper** detailing the development and outcomes of our image detection A.I. model.

Project Lead | Game Developer

Robot Rampage

Nov. 2022 – Apr. 2023

Java

- Led the development of a **single-player, multi-level video game** using Java and a customized graphics library.
- Implemented custom gaming mechanics, animations, and sound effects with a **customized GUI** to create a captivating gaming experience.
- Worked collaboratively with another developer to create the project.

Founder | Co-Director

Coding Club

Sep. 2022 – Jun. 2023

Python

- Founded and directed a coding club for high school students, creating Python-based content to **teach the basics of programming**.
- Taught a **group of 30 students**, bi-weekly throughout the entire school year.
- Worked **collaboratively with an administrative team** to design club and weekly curriculum.

RELEVANT EDUCATION

- **Computer Science Fundamentals I** | *Python*
- **Computer Science Fundamentals II** | *Java*
- **The Odin Project** | *HTML, CSS, JS, React*

TECHNICAL SKILLS

Languages: Java, Python, C, C, Frontend - JavaScript, HTML/CSS

Developer Tools: VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Github, Slack, Command line, Linux