

John Zhou

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EDUCATION

Queen's University, Bachelor in Computing (Honors)

Kingston, ON

Specialization in Computing, Mathematics, and Analytics

Sept. 2022 – Anticipated June 2026

- 4.0 Cumulative GPA
- Dean's Honor List with Distinction (97 percentile in GPAs within the Arts and Science faculty)
- Queen's University Excellence Scholarship
- Relevant courses: Advanced Calculus, Linear Algebra, Statistics and Probability 1, Discrete Math II, Computer Architecture, Logic For Computing Science

EXPERIENCE

Innovation Design Team Member Lung Cancer GitHub [Satellite Github](#)

Oct. 2022 – March 2023

QMIND (Queen's University AI/ML club)

Kingston, ON

- Implemented an **AlexNet model** to detect lung cancer within a chest x-ray image and worked to implement bounding boxes around the mass
- Utilising technologies such as Tensorflow, Jupyter Notebook, Numpy, Pandas, and OpenCV to organise, analyse, and display results
- Wrote a research paper documenting our group's findings and presented our work at CUCAI - one of Canada's largest Artificial Intelligence Conferences
- Scrapped and cleaned TLE data for **10+ satellites** from space-track.org
- Converted TLE data into **120 000+** satellites' longitudinal and latitudinal values using PyEphem

Perception Team Member

Oct. 2023 – June 2024

Queen's Autodrive (Autonomous car team for SAE's Autodrive Challenge II)

Kingston, ON

- Trained a YOLOv5 from Ultralytics for object detection on classes found on public streets
- Trained and evaluated the model on **5000+** images sourced from Roboflow

PROJECTS

Pizza Delivery Paraplegic [Github](#) | *Godot 3.5 Engine, GDScript*

July 2021 – October 2021

- Pizza Delivery Paraplegic is a short, 2D platformer where the player traverses the map with a grappling hook to deliver pizzas
- Designed and programmed the maps, menus, and movement with GDScript and the Godot 3.5 engine
- Created art with Pyxel Edit and used Audacity and SFXR for sound assets

EcoTrack [Github](#) [Website](#) | *HTML/CSS, Javascript*

Aug. 2023

- Built a web page questionnaire focused on raising environmental awareness and providing feedback on your daily habits
- Worked mainly on the back end, programming the web page's questionnaire with JavaScript
- Presented to a panel of judges at Hack the 6ix, Toronto's largest summer hackathon

TECHNICAL SKILLS

Familiar Languages: Java, Python, C#, JavaScript (proficient), HTML/CSS (proficient)

Developer Tools: Anaconda, Git/GitHub, Godot 3.5, VS Code, Visual Studio, Jupyter Notebook, PyCharm, Eclipse, CLI, Neovim

Libraries: NumPy, Pandas, TensorFlow, Ultralytics