

Jacky Li

Toronto, ON | jakkii.li@mail.utoronto.ca | 647 395 0715 | linkedin.com/in/jacky-li-851687282 | www.jakkii.ca

Education

University of Toronto, BASc in Engineering Science

Sept 2024 - Present

- GPA: Undetermined
- **Coursework:** Computer Science, Engineering Mathematics and Computation, Structures and Materials

Experience

Software Developer, UofT Rover for Space Exploration (RSX) – Toronto, ON

Sept 2024 - Present

- Developed a trained AI model to identify common objects with 90% accuracy
- Integrated AI models with cameras for communication between the rover's vision system and autonomy layer using ROS (Robot Operating System)
- Simulated rover activities on Mars with accurate and scalable physics using Unity

Seek Jr. Volunteer, UofT Rover for Space Exploration (RSX) – Toronto, ON

Nov 2024

- Helped set up the competition workspace, judge panel, and competition platform
- Registered 30 participants and provided participants with breakfast and lunch
- Assisted participants in resolving coding challenges and Arduino circuit-related issues with their mini rovers
- Photographed participants throughout the competition and distributed photos to the participant's supervisors

Projects

Online Multiplayer Game – Krackle

krackle.co

- Developed an online multiplayer game where users compete in a game of Try Not to Laugh
- Trained an AI model to recognize facial expressions and to determine laughing expressions from the user
- Tools Used: JavaScript, Python, TensorFlow, Open CV, Flask, Socket.IO

2D Java Game – Teaching Basics

GitHub Link

- Developed a 2D task based horror game that incorporates a functional enemy AI using the Breadth First Search (BFS) algorithm
- Incorporated custom soundtracks, sound effects, and user interface created through Photo-shop
- Tools Used: Java, Swing, Abstract Window Kit, Photo-shop

Bike Powered Phone Charger

May 2023 - June 2023

- Built a DC generator that transforms the kinetic energy of bicycle gears into usable electrical energy
- Incorporated adapters that allow the user to plug their phone and other devices into the generator

Technologies

Programming Languages: C, C++, Java, JavaScript, Python, C#, LaTeX, MatLab

Skills

- Proficient in MS Office (Word, Excel, PowerPoint)
- Fluent in English and Mandarin

Certifications

- ARCT Piano Performance with Honors