

# Andrew Lin

✉ andrew.61523@gmail.com ☎ 6479836509 in Andrew Lin 🌐 github.com/ALin837

## PROGRAMMING EXPERIENCE

### Programming Languages

- Python, Racket, Java, C/C++, HTML/CSS

### Tools and Libraries

- Selenium, Fiddler, Kanban/JIRA board, PyGame

### Technical Skills and Coursework:

- Understanding of Functional Programming
  - Ability to work with Binary and Binary Search trees.
  - Generative, Accumulative, Mutual, and Simple Recursion
- Understanding of the Three Pillars of O.O.P
  - Encapsulation, Inheritance, Polymorphism
- Experience and Understanding with Dynamic Memory and Pointers
  - Allocation and Deallocation of Memory
- Knowledgeable about basic elementary data structures and basic coding algorithms from side projects and CS courses

## PROJECTS

### Snake - Python 3

- Utilized knowledge of Objected Oriented Programming to recreate a simulation of Snake
- Implementation of music, keyboard inputs, objects, and simple graphics
- Implementation of speedup feature in Snake
- Ability to store data and display a high score

### Breakout - Python 3

- Usage of objects, and collision to create a simulator of Atari Breakout using PyGame
- Includes basic collision and rebound physics, a double paddle mode, and other game features

### Pong - Python 3

- Applied Objected Oriented Programming concepts to create Pong using PyGame
- Utilized IDEA/ALTER framework in programming
- Developed a simple and efficient algorithm for collisions and rebounds in Pong

## EDUCATION

### Candidate for Bachelors of Computer Science, University of Waterloo

09/2020 – present | Waterloo, Ontario

### Ontario Secondary School Diploma, Dr. Norman Bethune

09/2016 – 06/2020 | Scarborough, Ontario

## SKILLS

- Not afraid to be wrong or make mistakes
- Curious and a strong desire to learn new things
- Strong organization and collaboration skills
- Analytical and a relentless problem-solver

## WORK EXPERIENCE

### QA Analyst, InFlight Corporation

05/2021 – 08/2021 | Kitchener, Canada

- Collaborated with QAs and Developers to create test plans to test multiple areas for Business Enterprise Systems
- Experience with Manual Regression Testing, Functional Testing, Black Box Testing and utilized many other Testing Practices to test Business Enterprise Systems. (e.g. PeopleSoft, Taleo)
- Organized and managed testing tickets on JIRA to document bug fixing and testing processes.
- Automated testing processes with Selenium to test functional behaviour and cosmetic changes within project applications.

### Reading Circle Assistant, Reading Circle Inc.

09/2019 – 03/2020 | Scarborough, Canada

- Collaborated with adults and adolescents to help run a weekly reading program, receiving a lot of high praise from parents
- Lead and presented activities for children that helped develop their writing, and reading skills

## EXTRA-CURRICULARS

### Bethune Environment Action Team

Scarborough, Canada

Duration: 3 Years

- Collaborated with a team of students to organize our school's "Water Week" to raise awareness about water scarcity
- Responsible for garbage, compost, and recycling management, sustaining our Platinum Eco-School status

### Bethune Science Olympics, Secretary

Scarborough, Canada

Duration: 2 years

- Member of a 10 person team and helped plan our University of Waterloo Trip
- Participated at 2018-2019 Science Olympics held at The University of Western Ontario