

# Andrew Lin

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## Programming Experience

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### Programming Languages

- C/C++, Python, Java, HTML/CSS, JavaScript, Go, Groovy, Racket, Turing

### Libraries/Frameworks

- React, Django, Pygame, Ncurses

### Tools

- Git, Jmeter, Selenium, PostgreSQL, Fiddler, Kanban/JIRA board

## Work Experience

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### Junior Developer, Monest Co.

12/2021 – present  
London, Canada

- Implemented an Email Sign-up feature onto Monest's website to save emails using Django's REST API framework and models, and saved emails into a PostgreSQL database.
- Involved in both frontend and backend bug fixing, refactoring of React Components, and adding additional APIs to improve code manageability and sustainability.

### Software QA Automation Developer, OpenText Corporation

01/2022 – 04/2022  
Waterloo, Canada

- Developed automated tests to test REST APIs and utilized Jmeter JSR223 samplers and assertions, and Groovy scripts to facilitate API response, performance, and load testing.
- Developed a TCP and UDP Client/Server application using Go for performance statistic baselines.

### QA Analyst, InFlight Corporation

05/2021 – 08/2021  
Kitchener, Canada

- Created test plans to test multiple areas within Business Enterprise Systems
- Experience with Manual Regression Testing, Functional Testing, Black Box Testing and utilized many other Testing Practices to test backend and frontend issues.
- Automated testing processes with Selenium to test functional behaviour.

## Projects

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### AGE Engine - C++

- Utilized O.O.P Principles and MVC design pattern to produce a Game Engine to support the creation of ASCII art video games using the Ncurses library
- Implemented sprite creation, basic collision handling and rebound physics in the Game Engine
- Created the "Google Dinosaur Game" and the "Impossible Game" using the Game Engine.

### Snake - Python 3

- Utilized knowledge of Object Oriented Programming to recreate a simulation of Snake
- Implementation of music, keyboard inputs, objects, and simple graphics
- Implemented a speedup feature in Snake and ability to store data and display high scores

### S-Expression Calculator - Python 3

- A command line program that performs the operations "add" and "multiply" on S-Expressions
- Utilized Knowledge of Recursive Data Structures and Parsing Algorithms.

## Education

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Candidate for Bachelors of Computer Science,  
University of Waterloo

09/2020 – present  
Waterloo, Ontario