

ADRIAN PASQUALINI

COMPUTER SCIENCE STUDENT UNIVERSITY OF WATERLOO



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PROJECTS

Facial Recognition Program

SEPTEMBER 2018 - JANUARY 2019

- Developed a facial recognition program in GNU **Octave** that can distinguish between the face it was trained on and any other face
- Implemented a gradient descent algorithm with regularization to train on approximately 70 photos
- Achieved a **90% accuracy rate** within test and cross-validation sets containing about 40 photos

Box2D Physics Simulations

OCTOBER 2017 - MARCH 2018

- Utilized **Processing 3** and the **Box2D** physics engine to model real life phenomena with digital simulations
- Created relevant models to supplement physics lab reports when there were no adequate models online

Aquatic Attack 2-Player Game

APRIL 2016 - JUNE 2016

- Developed a two-player duelling game using **Python** and **Pygame** sprites with object-oriented programming
- Coordinated the game's design and balanced game mechanics through rigorous playtesting

Personal Website

APRIL 2019 - PRESENT

- Built a personal website from scratch using **HTML**, **CSS**, and **jQuery**.
- Designed the style and organization of the website and employed jQuery to make it dynamic

TECHNICAL SKILLS

Experienced:

- Python
- C
- Octave
- Swift
- Processing 3
- HTML
- CSS
- Racket

Familiar:

- Java
- jQuery
- C++
- Git

EXPERIENCE

Mastermind Xavier Club Co-Founder

SEPTEMBER 2016 - JUNE 2018

- Organized fun and unique puzzles and challenges for members to solve at weekly meetings
- Trained members for the MENSAs entrance exam
- Supervised a group of 10 - 20 high school students

Dine and Chill Restaurant Busser

AUGUST 2017 - MARCH 2018

- Managed the kitchen utilities area to maintain organization and keep operations running fluidly
- Attended to customer's needs by taking orders, serving food, clearing tables, and refilling drinks

Habitat for Humanity Volunteer

JULY 2017 - JANUARY 2018

- Arranged the ReStore warehouse to cleanly fit and display all merchandise to improve efficiency
- Assisted customers load and unload their items and helped them locate items within the store

EDUCATION

University of Waterloo

BACHELOR OF COMPUTER SCIENCE

- GPA: **3.98** Cumulative Average: **91.3%**
- Dean's Honours List for 1A and 1B terms

International Baccalaureate Program

ST. FRANCIS XAVIER SECONDARY SCHOOL

- Higher level Mathematics, Physics, and Chemistry
- Grade 12 Average: **97.4%**