

JONATHAN MA

2A HONOURS MATHEMATICS – COMPUTER SCIENCE MAJOR

@uwaterloo.ca

Student ID: 25000000

ABOUT ME

Technical Skills C/C++, Python, Java, Unix/Linux, Excel VBA, MySQL, Scheme, L^AT_EX

Languages Fluent in French; Conversational Proficiency in Cantonese

Art Technology Adobe Photoshop, Adobe Premiere Pro, Illustrator

Interests Digital Art, Cinematography, Photography, Design, Poker

WORK EXPERIENCE

Statistics Canada

Enumerator, Census 2011

Montreal, QC (Summer 2011)

- Helped and convinced respondents in their dwellings to fill in the census forms
- Fixed discrepancies in respondents answers to prevent anomalies in the 2011 Census
- Managed and sorted census report in Statistics Canada's online database

McDonalds, Aramark Canada, Compass Group

Cashier, Food Services

Montreal/Waterloo, QC/ON (June 2009 - April 2013)

- Worked in various food services company as a part time job during studies
- Provided excellent customer service while executing quick transactions with accuracy in a stressful and fast paced environment
- Maintained a sanitary workplace abiding to Canada's Food and Drugs Act and Regulations

COMPETITIONS AND PERSONAL PROJECTS

Rotman International Trading Competition

(February 2013)

- Developed quantitative strategies and applied them during the competition against undergraduate and graduate students from schools around the world
- Implemented Excel VBA macros to facilitate trading and to datamine the simulated cases for research
- Wrote a bot for the Algo Case in VBA using their RIT client API that optimizes asset liquidation and profit from arbitrage

CRC Robotics Competition

(February 2012)

- Programmed the robot to facilitate driver control using RobotC (C++)
- Programmed the automated robot to compete in the Programming Competition winning 1st place

Intrade

(December 2012)

- Wrote an algorithm in Python to trade DOW contracts using Black-Scholes binary option pricing.
- Automated trades using the Intrade API which required the use of XML processing using ETree libraries
- Data mined live feed from various websites for live Index Pricing and Volatility by parsing HTML

Pygame

(May 2013 - Present)

- Wrote a 2D action shooting game using pygame module
- Acquired code organization skills by modularizing my programs and defining appropriate classes
- Learned the subtleties and details that creates a good user interface with pleasing aesthetics

Facebook Hacker Cup, Google AI Challenge

(2010–Present)

- Developed problem solving skills and learned different algorithms through competitions

EDUCATION

University of Waterloo

Waterloo, ON (2012–Present)

- Honours Bachelor of Mathematics (Computer Science)
- Cumulative Average: 93%
- Honors: Dean's Honours List

Marianopolis College

Westmount, QC (2010–2012)

- Pure and Applied Science DEC
- Cumulative Average: 93%