

DANIEL XIAO

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SKILLS

Languages: Java, Python, C#, Swift, JavaScript, Swift, Visual Basic, Racket

Technologies: Django, SQL, VS Code, Git, Unity, Flask, Selenium, Blender3D, LaTeX

Soft Skills: Collaboration, innovative thinking, leadership, excellent written and verbal communication

PROJECTS

Cryptocurrency Trading Bot | *Python, Binance API*

August 2021

- Developed a basic cryptocurrency trading bot using Python and the Binance API
- Executed trades based on basic technical indicators (i.e., EMA crossover, MACD, RSI)
- Gained fundamental knowledge on the applications of automated trading in financial markets

3D Platformer Game | *Java, JMonkeyEngine, Blender3D, Audacity*

June 2021

- Programmed a 3D endless scrolling platformer game (like “Temple Run”) using JMonkeyEngine in Java
- Applied methodology from the Software Development Life Cycle during application creation and testing
- Designed and modelled game assets using Blender3D and image manipulation software
- Gained extensive knowledge on how OpenGL interacts with the GPU to render 2D and 3D graphics

Security System with Facial Recognition | *Python, Django, OpenCV*

September 2020

- Designed a home security web application using Python with Django and OpenCV for Hack the North 2020
- Utilized a MySQL database to log movements, detected faces, locations, and timestamps
- Rendered the data and camera feed recordings onto a webpage using the Django templating engine
- Implemented a login system to prevent unauthorized access to log records

Instagram Chatbot with Web scraping | *Python, Selenium, Heroku*

April 2020

- Implemented a customizable chatbot compatible with Instagram using Python and deployed to Heroku
- Used Selenium and BeautifulSoup to automatically navigate the browser and parse chat messages
- Applied Object Oriented Programming techniques to flexibly read and write message data
- Flexible design, allowing others to easily program their own custom commands with little code

EXPERIENCE

Markville Secondary School

September 2019 – March 2020

Mathematics and Computer Science Tutor

Markham, ON

- Developed verbal communication and teaching skills through tutoring struggling students
- Created tailored lesson plans based on the Ontario curriculum to raise students' grades

Lakeridge & Snowhawks Ski School

December 2017 – March 2020

Ski Instructor

Uxbridge, ON & Barrie, ON

- Responsible for managing and tracking the progress of multiple classes throughout an 8-week period
- Exhibited excellent leadership skills through teaching safe and proper technique to groups of students

AWARDS AND RECOGNITION

DECA Provincial Medalist (2018, 2019, 2020): Placed top 15 out of 500+ competitors.

CMU Pico CTF Cybersecurity Competition (2019): Placed top 20 out of 700+ teams in Canada.

Laurier BBA Case Competition (2021): Semi-finalist out of 1500+ first-year students.

OBEA Accounting Contest (2020): Placed 6th out of 200+ competitors.

EDUCATION

University of Waterloo and Wilfrid Laurier University

(Expected) May 2026

BCS/BBA Computer Science and Business Administration (Double Degree)

Waterloo, Ontario

- GPA: 3.98/4.0 (94.4%)
- Hobbies & Interests: Financial Markets, Winter Sports, Mathematics, Cryptocurrency, Game Development