

# Ehsan Syed

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Ehsan Syed 🌿

## SKILLS

**Languages:** Python, C, SQL/SQLite, HTML/CSS, JavaScript, Racket

**Tools:** VSCode, Git, Figma, LaTeX, DrRacket, Jupyter Notebook, Google Workspace, Microsoft Office Applications

## PROJECTS

### Algorithmic Trading 🔒 - Mar 2022

- **Equal weight S&P 500 index:**
  - Takes in a portfolio **value** and returns the amount of each stock in the index to buy to hold an equal weight (evenly weighted) version of the S&P 500 as an XLSX file
  - Used the **requests** library to return **market cap** and **current price** of stocks using the **IEX Cloud Sandbox API**
  - Stored the stock name, market cap, price, and number of shares to buy in a **pandas DataFrame**
  - Created an algorithm to batch stocks into groups of **100** to increase efficiency by executing **batch API calls**
- **Quantitative Momentum Strategy:**
  - Lists the top 50 stocks currently, evaluated by **momentum value** and returns the amount of each stock to buy in an XLSX file
  - Creates a **momentum strategy** by using the **1 year price return** from the **IEX Cloud Sandbox API**, then improves it by creating a better momentum strategy using the **1 month, 3 month, 6 month, and 1 year price returns**
- **Currently working** on creating a better momentum strategy using the paid API, and backtesting it

### Wavey — Hack the North 🔒 - Sep 2021

- Built a **Python** note-taking application controlled with hand gestures, to screenshot and transcribe text
- Used **OpenCV**, **mediapipe** and **object-oriented programming** for hand recognition through the camera
- Created a time delay to prevent multiple commands executing at once
- Used **OCR** for converting screenshots to text and created a **GUI** prototype with **Figma**

### Front-End Engineering Projects 🔒 - Jan 2022

- Used elementary website design principles to create websites through **HTML** and **CSS**
- Currently learning **JavaScript**
- Also beginning to develop a website for university students to review local restaurants and get recommendations with **SQL** and **JavaScript**

## EXPERIENCE

### Personal Tutor, Oakville, ON

March 2019 - June 2021

- Tutored high-school and middle-school students in all subjects and
- Learned to thoroughly explain concepts to students from the ground up, both in regular and virtual environments

### Wallace & Carey Inc., Oakville, ON — Freezer Clerk

June 2021 - August 2021

- Worked full-time in a warehouse freezer to distribute goods to convenience stores and cinemas across Ontario
- Collaborated and communicated effectively with all other departments to maintain quality of orders and ensure they were effectively shipped off

### EXTRACURRICULAR: Programming Club, Oakville Trafalgar High School — Executive

September 2020 - June 2021

- Helped create challenges and activities for experienced members including hosting a custom coding competition
- Taught new members **how to attempt** solving coding questions from the CCC using basic programming concepts

## EDUCATION

### University of Waterloo — Bachelor of Mathematics

September 2021 - April 2026 (expected)