

# DAVID ASSOULINE

Resume

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🌐 <http://www.davidassouline.com>

## EDUCATION.

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### **Bachelor of Computer Science**

May 2020 - Present

Gina Cody School of Engineering and Computer Science  
Concordia University - Montreal, QC

### **Bachelor of Commerce, Major in Finance**

Sep 2018 - May 2020

John Molson School of Business  
Concordia University - Montreal, QC

## EXPERIENCE.

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### **Web Dev, Tutoring, Freelance**

Aug 2020 - Present

Online - Montreal, QC

- Offered my programming knowledge and analytical skills in the form of freelance work for individuals and small businesses
- Tutoring of students in Python and Java, teaching best practices and preparation for university Examinations.

### **Small Business Specialist/Personal Banking Advisor**

Nov 2018 - Aug 2020

TD Bank Financial Group - Montreal, QC

- Opening of new accounts, fulfillment of credit applications for various credit products, referrals to private banking and wealth partners, and settlement of estates.
- Engagement of customers in day to day advice needs and digital education related to banking solutions.
- Support of frontline staff with cash and non-cash transactions, including supervisory functions and providing overrides to tellers.

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## Vacation Rental Partner

Aug 2018 - Nov 2019

Top Stays Management - Montreal, QC

- Co-founded vacation rental company. Expanded to 15 properties during involvement.
- Personally responsible for software implementation, payment processing, customer relations, OTA relations & optimization, channel manager integration, fraud prevention, property onboarding, revenue management, graphic design, IT, and more.

## ACHIEVEMENTS.

**Bravo Award** | TD Small Business Banking | Punta Cana, DR 2019  
Annual award recognizing top 3% of employees in each department

**Warrior's Pin** | Israel Defense Forces | Jerusalem, IL 2017  
Succesfully completed 12 months of rigorous mental and physical training

## HARD SKILLS.

Python 3.8	●●●●●●●●●●
SQL (PostgreSQL, SQLite)	●●●●●●●●●●
Java 14	●●●●●●●●●●
Data Science (Python)	●●●●●●●●●●
IntelliJ IDE / Pycharm	●●●●●●●●●●
Algorithmic Trading (Python)	●●●●●●●●●●
Full-Stack Web Development	●●●●●●●●●●
Cybersecurity (Infrastructure)	●●●●●●●●●●
Machine Learning (Python)	●●●●●●●●●●

## SOFT SKILLS.

Cognitive Ability	●●●●●●●●●●
Logic	●●●●●●●●●●
Processing Speed	●●●●●●●●●●
Quick Learning	●●●●●●●●●●
Problem Solving	●●●●●●●●●●
Critical Thinking	●●●●●●●●●●
Perseverance	●●●●●●●●●●
Pressure Handling	●●●●●●●●●●
Decision Making	●●●●●●●●●●

## LANGUAGES.



### English

Native  
Written and Spoken



### French

Native  
Written and Spoken



### Hebrew

Proficient  
Written and Spoken

## INTERESTS.

🚁 Drone Flying

🏍️ Motorcycle Riding

📖 Reading

🏕️ Camping

🔗 Programming

🪂 Parachuting

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## Programming Projects.

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### **ARIMA Model Predicts Future Price of Air Canada Stock**

<https://github.com/david-assouline/ARIMA-Time-Series-Forecasting>

Used auto regressive integrated moving average (ARIMA) model to analyze a time series of historic Air Canada lags and lagged forecast errors to predict future stock price values in python. Stock data sourced from Yahoo Finance.

### **A.I. Learns to play (and defeat) "Flappy Bird"**

<https://github.com/david-assouline/Flappy-Bird-AI>

Using neuroevolution of augmenting topologies, trained a bot to play a recreated version of Flappy Bird game. Developed both the game environment and the AI in python.

### **Sudoku Solver**

<https://github.com/david-assouline/personal-projects/blob/master/Sudoku%20Solver.py>

Wrote a program that takes in any sudoku board through console input, checks its validity and returns a solved board in under 100 milliseconds using recursion and backtracking in python.

### **Pairs Trading Algorithm**

<https://github.com/david-assouline/personal-projects/blob/master/TD-RY-PAIRS-TRADING>

Using the Quantopian platform, wrote and backtested a trading algorithm that tracks 2 highly correlated financial securities and automatically goes long or short when a certain z-score difference is reached. Returned 44% over a 5 year span compared to the S&P 500 benchmark of 41.3%.