

# Arshia Malekahmadi

[www.arshiamalek.com](http://www.arshiamalek.com) [arshiamalekahmadi@gmail.com](mailto:arshiamalekahmadi@gmail.com) 647-570-1118 <https://github.com/ashmlk>

## Education

### Ryerson University

Bachelor of Science (Honours) Computer Science (CS GPA 3.1)

Toronto, ON  
September 2017 – May 2021

## Qualifications and Technical Skills

Programming languages: Java, C, Python, HTML, CSS, SQL, Rust  
Other skills: Bootstrap, Git, Linux, Oracle SQL Developer, Agile Methodologies

## Course studies

### Programming Languages *Java, C, Smalltalk, Rust, Haskell, Elixir*

Learned main concepts of algorithm development and implementation, object-oriented principles and functional programming.

### Discrete structure and computer algorithms

Learned dynamic programming, memoization, backtracking, graphs, array searching and complexity analysis.

### Artificial Intelligence and Machine Learning

Studied algorithms and subjects such as, belief networks, natural language understanding, neural networks, linear models, data processing and manipulation.

## Projects

### House Price Prediction Model

- Developed a program that predicts house prices by using the Jupyter Notebook and Python libraries such as Seaborn, Pandas, Matplotlib, NumPy, and Scikit-learn.
- Founded correlation between data for improving the accuracy of the model by feature selection and reducing dimensions.
- Implemented predictive algorithms such as linear and logistic regression, kNN, gradient boosting, and decision trees for finding the most accurate classifier.

September 2019

### To-Do List Application

- Designed and developed the application, using Java Swing frame work.
- Created and maintained centralized UI components for increasing development velocity and UI consistency.
- Delivered robust and highly maintained code by using design patterns and JVM.

August 2019

### Map Application

- Implemented and developed a command-line map application using Java which shows distance between a source (user's input) and the cities in the programs database.
- Optimized program by implementing graph searching algorithms and complexity analysis.
- Increased readability and clarity of code by using object-oriented principles.

July 2019

### Siren Records (Music Application)

- Developed a music application in Java for interactive user access to music libraries with functionalities such as adding and removing songs, and creating playlists on different profiles.
- Serialized user's data for future transmission and reconstruction on separate machines and networks.
- Wrote and executed unit and integrated test cases based on the software's design that resulted in a bug free and an intuitive UI program.

April 2019

## Experience

### Canadian Tire

*Sales associate*

Toronto, ON  
April 2019 – Present

- Answered product questions with up-to-date knowledge, improved customer service and active listening skills.
- Took responsibility in dealing with new seasonal merchandises and reorganizing the warehouse based on seasonal products improved commercial awareness and problem-solving skills.

### Parsian Fine Foods

*Costumer representative and Deli Clerk*

Toronto, ON  
May 2018 - September 2018

- Provided costumers with details about products and foods, improved communication and management skills.