


# Mahmoud El Bestawy

Software Developer

*A capable and passionate computer science student ready to create, develop, and change the world.*


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## Education

### University of Toronto — Bachelor of Science Candidate: Computer Science

09/2018 - Present

- *Data Structures and Analysis*
- *Computational Complexity and Computability*
- *Software Tools and Systems Programming*
- *Software Design*
- *Intro to Neural Networks and Machine Learning*
- *Computer Organization*

### Assignments

- Developed numerous features alongside a team of students to develop digital Othello game. Using Java and Object-Oriented-Design, we successfully developed the game while correctly implementing Inheritance between classes, Interfaces, and design patterns such as MVC, Visitor, and Strategy. Version control was performed and coordinated using Git.

## Projects

### Web Development

#### React.js Favourite City Survey Web-app — 5 / 2020

Designed and implemented a web-app using the React.js library and Firebase backend functionality. Utilized React features such as state manipulation, event-handling, event-propagation, and use of the component life cycle. Additionally, used Firebase's Firestore functionality to collect votes from users and to send information about the stored votes to dynamically render components of the web-app.

#### Portfolio Website — 10 / 2018 - Present

Created responsive layouts using HTML and CSS/SCSS that remain attractive at multiple screen sizes. Implemented JavaScript modules using jQuery to render elements of each page as well as to implement event-listeners for clicking, scrolling, or resizing the screen.

### App Development

#### Truth or Dare Android App — 7 / 2019

Designed app UI using Adobe XD. Incorporated Model-View-Controller design pattern in implementing the different Java modules of the app. Incorporated Singleton design pattern to implement the module responsible for collecting and handling data from the player. App was implemented using Java and the UI using XML in Android Studio.

## Work Experience

### Xtend Education

#### Computer Science Instructor — 11 / 2019 - Present

Explained programming concepts to high school students. Taught students Java and Python basics using different JavaFX and pygame. Provided aid to students on computer science related homework and school projects.