

# HARSHDEEP SINGH

harshdeepsingh9262@yahoo.com

<https://harshdeeply.github.io>

<https://www.linkedin.com/in/harshdeep-singh-71b98b185/>

## Highlights

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- ★ A sophomore studying at BCIT School of Computing and Academic Studies
- ★ Highly ambitious with a desire to learn and thrive
- ★ Experience in pair programming and agile software development
- ★ Experience in UI/UX development
- ★ Currently working with a team on a machine learning project using NB-IoT sensors

## Work Experience

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### ★ Xorosoftware Inc, Burnaby, BC

May 2019 - December 2019

#### *Junior Software Developer (Technical Intern)*

- Identify customer needs and help customers use specific features of an ERP software
- Writing and maintaining code for computer applications
- Participate in pair-programming to work in bug fixes
- Engage with senior developers to learn the codebase and development environment

## Technical Skills

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Languages	Tools	Libraries/Platforms	SQA	Database
HTML/CSS/JavaScript	Slack	React.js	Automated testing	MongoDB
Python	Trello	React Native	Writing test cases	MySQL
TypeScript	Git	Node.js	Documenting reports	Firebase

## Technical Project Experience

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### ★ Mobile Game using React Native (*Team Project*)

April 2020

- Created *2048 game* for IOS and Android devices using React Native
- Implemented google based authentication to login into the game
- Animated the game using external libraries
- Learned how to improve UI/UX designs

- ★ Mobile App to fetch events (*Individual Project*) *March 2020*
  - Created a mobile application for IOS and Android devices using React Native
  - The application used a third-party API to fetch events near the user
  - Enabled location based and keyword search filtering to fetch the events
  
- ★ Machine learning using NB IoT sensors (*Course Project*) *January 2020 - Present*
  - Working on a machine learning project involving the use of narrowband IoT devices that would be used to perform data analytics on an underground parkade area in a team of 4
  - Trying to implement course (Algorithms Research and Development) learnings into the project completion
  
- ★ Full-Stack Inventory Management application (*Pair project*) *September 2019 - December 2019*
  - Created a full-stack inventory management application using Object-Oriented Programming with Python and following pair programming development technique
  - Wrote unit tests and implemented automated testing using the builtin Python Unit Test library
  - Developed the graphical user interface using the Tkinter library to implement as the front-end
  
- ★ Raevia (*Agile team project*) *May 2019 - June 2019*
  - Worked on a clicker-web MVC based game in a team using the agile development methodology
  - Designed the front-end of the game using javascript, CSS, typed.js, bootstrap, granim.js and particles.js
  - Contributed to backend development using technologies such as NodeJS and MongoDB
  - Created unit tests using Mocha and Chai in an ExpressJS environment
  - Iterated over and over the development and presented weekly deliverables over a period of 5 weeks
  
- ★ BCMC website redesign (*Agile project*) *January 2020 - April 2020*
  - Worked for a non-profit organization on a website redesigning project using WordPress as the CMS
  - Wireframed the user interface of the website using Figma
  - Used trello and git as collaborating platform and version control system respectively
  - Learned how to minimize the operating costs of websites
  
- ★ Personal portfolio website (*Personal project*) *January 2019 - May 2019*
  - Created the portfolio using HTML, CSS and Vanilla JS
  - Created a contact form with Firebase as a database management system to handle submissions
  - Designed the UI using bootstrap

### ★ Interstellar (*Team project*)

*January 2019 - May 2019*

- Created a console-based application which rendered the position of the specified planet at a given point of time using python
- Lead a team of 3 individuals to the completion of the project
- Learnt and studied planetary motion before starting the project

## Hackathons

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### ★ Vanhacks

*October 2019*

- Participated in the Vancouver Startup Week VanHack 2019
- Worked on developing a web-based application for a non-profit organization helping people who are less fortunate by allowing them to locate nearby vital resources such as shelter, free food, toilets, free clothes, etc.
- Used React.js to develop the offline application in a team of 4

### ★ Justice Hack

*November 2019*

- Participated in the JusticeHack which involved hacking for justice firms and organizations
- Worked in a team of 5 on extracting data from public sources to accumulate it and present the statistics.
- Used python for data extraction

## Education

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### ★ British Columbia Institute of Technology

*January 2019 - December 2020*

#### *Computer Information Technology (Diploma)*

- Web Development and Designing
- UI/UX Designing
- Database Administration
- Front-end & Back-end Development
- Algorithms and Data Structures

## Interests

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- ★ Web designing/development
- ★ Watching tech videos

- ★ Playing piano and tabla
- ★ Admiring the beauty of physics
- ★ Dad jokes