

Harman Brar

Relevant Links

 [stackoverflow](#) : [hb22](#)

 [GitHub](#) : [harman-brar](#) / (hb22)

EDUCATION

University of British Columbia, Vancouver BC — *B.Sc. Computer Science*

September 2017 - May 2021

Relevant Coursework: Program Design, Data Structures, Algorithms, Multivariable Calculus, Linear Algebra, Symbolic Logic, Discrete Mathematics

EXPERIENCE

UBC Sailbot, University of British Columbia — *Software Team*

September 2018 - Present

- Developing an API in **Node.js/Express** that will receive and store data produced by an autonomous sailboat, as well as push waypoint and speed commands to the sailboat

Momose Group, University of British Columbia — *Research Assistant*

May 2018 - September 2018

- Worked on adapting an evolutionary algorithm in **C++** to local Zeeman Decelerator configuration to increase phase space density by up to 40%
- Developed **Igor** scripts to automate quantification of output of certain programs from taking up to a couple of hours to less than a second
- Designed ion optics for the detection of ammonia molecules in a microwave trap cavity

GS Software Development, Surrey BC — *Software Development Intern*

June 2018 - August 2018

- Developed an Android/iOS parent-staff communication application using **React Native**

Turfco Landscape Supply Inc., Richmond BC — *Technologies Manager*

May 2017 - April 2018

- Solely built web presence, inventory tracking, invoice, and account management systems using **HTML/CSS/JavaScript** and **Java**

Published Individual Projects

- Alfred - Android Assistant - [Link](#)
- PaddleBall (**Android**) - [Link](#)
- [www.turfcolandscape.com](#) (Block and Paver calculators in 'Products')
- [www.punjabikkeyboard.co.nf](#)

4417 Portland Street

Burnaby, BC

(778) 227-2349

hbrar95@gmail.com

Extracurriculars

Surrey Knights Junior Hockey (PJHL)

- September

2016-March 2017

Co-President -

Burnaby South

Programming Club

- September

2016-June 2017

Affiliated Player -

Langley Knights (PJHL)

- October 2015 to March 2016

BWC Midget AAA Hockey

- August 2015 to March 2016

LANGUAGES

Punjabi

Hindi

Urdu

** references available upon request*