

HARMAN BRAR

Software Engineer

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@hbrar95@gmail.com

Vancouver, BC

EXPERIENCE

Founder

Netbooklet Technologies

Nov 2019 - Present Burnaby, BC, CA

- Ideated platform based on market gap
- Developed frontend in **Vue + HTML**
- Wrote services in **Node.js/Express**
- Designed relational database schema and implemented it in **PSQL**
- Leading team of 3 in implementing new features and business strategies
- Researching various marketing strategies
- Building customer relations

Research & Development Intern

ABB Ltd.

Sept 2019 - May 2020 Richmond, BC, CA

- Led a team of 4 UI automation engineers
- Improved UI & Integration test run times by up to 31%
- Developed **Katalon - TM4J** integration to improve engineer productivity
- Contributed to internal automation framework written in **Java, Groovy** and **Kotlin**
- Interacted with **DevOps** & **CI/CD** tools daily
- Engaged in **Agile** development practices

Software Development Intern

Purposely Platform Inc.

May 2019 - Sept 2019 Burnaby, BC, CA

- Enhanced existing **React.js/Django** web application to a **Progressive Web App**
- Focused on clean, modular design based on React best practices
- Designed Django Models for efficiency, completeness, and usability
- Engaged in **Agile** development practices and company meet & greets

Software Engineer

UBC Sailbot

Sept 2018 - Sept 2019 University of British Columbia

SKILLS

Java

Advanced

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HTML + CSS

Advanced

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JavaScript

Advanced

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PSQL

Advanced

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JavaScript Frameworks

Proficient

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Flutter

Proficient

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Azure CI/CD

Intermediate

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Python

Intermediate

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C

Intermediate

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EDUCATION

BSc Computer Science

University of British Columbia

Sept 2017 - Present

FIND ME ONLINE



GitHub

harman-brar



StackOverflow

hb22

- Developed **MongoDB** schema for storing autonomous sailboat sensor data
 - Built **Node.js/Express** backend to enable two-way communication between web client and sailbot
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Website

<https://harman-brar.github.io/>

Research Assistant

Momose Group (Physical Chemistry)



May 2018 - Sept 2018



University of British Columbia

- Automated the visualization of data from various programs using **Igor** scripts, **saving hundreds of hours** of manual data handling
 - Studied and began work on adapting an evolutionary algorithm in **C++** to improve local Zeeman Decelerator configuration
 - Designed cutting edge ion optics configuration to optimize detection of ammonia molecules in a microwave trap cavity
 - Delivered biweekly presentation on progress and task forecast
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Software Development Intern

GS Software Development



Jun 2018 - Aug 2018



Surrey, BC, CA

- Developed **React Native** parent-school communication tool application
 - Built components for displaying grades and attendance
 - Participated in weekly meetings to discuss design, functionality, and progress
-

Android Developer (Volunteer)

BipTech



Dec 2016 - May 2017



Vancouver, BC, CA

- Worked on educator collaboration application for the BC Ministry of Education
- Developed scroll feed for projects on the platform using **Android SDK**