

# Kavpreet Grewal

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## EDUCATION

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### University of British Columbia

September 2019 – May 2023

*Bachelor of Science in Computer Science — GPA: 92.5 / 100*

*Vancouver, B.C*

- Coursework: Software Construction, Computer Science Fundamentals, Discrete Mathematics
- Awards: J Fred Muir Scholarship in Science – Awarded to the top ~35 students in cohort of about 2000 students

## TECHNICAL SKILLS

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|---------------------|--|
| <b>Programming</b>  | Java, JavaScript, C++, Python, TypeScript, Dart, HTML, CSS, MATLAB, R  |
| <b>Technologies</b> | Flutter, Express.js/Node.js, React, Firebase, MongoDB, TensorFlow, Git |

## EXPERIENCE

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### Software Developer

September 2020 – Present

*UBC Launch Pad Software Engineering Club*

*TypeScript, Node.js, React, MongoDB*

- Developed a recruitment and club application tool to streamline recruitment process for student clubs
- Implemented system to parse applicants' information from a Google Sheet and store info in MongoDB database
- Simplified application review by developing a REST API using Express.js to generate applicant profiles from a Google Sheet which then could be directly graded
- Collaborated with a team of 11 developers, designers, and strategists in a professional environment organized using the agile methodology

### Mentor – Programming Team

September 2019 – Present

*L.A. Matheson Robotics*

*Java, LabView*

- Mentored team of 7 programmers during their participation in the FIRST Robotics Competitions
- Taught high school students programming fundamentals in Java and LabView
- Taught programming and promoted participation in robotics to students from schools in the community

### Programming Team Lead

September 2017 – June 2019

*L.A. Matheson Robotics*

*Java, LabView*

- Led team of 5 programmers during team's participation in the FIRST Robotics Competitions
- Programmed and formulated strategies for autonomous operation of the robot and auto driver aids to improve robot speed and efficiency
- Led team during run at the 2019 FIRST World Championship in Houston in which we placed 5th out of nearly 8000 teams worldwide

## PROJECTS

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### OnTrack - Time Tracker | Dart, Flutter, Firebase

- Developed an iOS and Android application using Flutter to help users log hours towards their goals
- Implemented user authentication and sign-in with Google with Firebase
- Used Firebase to store record of logged hours associated with user's account for easy access on any device

### Touchless Webpage Scroller | JavaScript, TensorFlow

- Developed a browser extension with JavaScript and TensorFlow to enable users to scroll webpages without touching their device
- Enhanced and simplified user experience while browsing the web by utilizing TensorFlow handtracking to allow users to scroll by simply raising one or both hands