

Kavpreet Grewal

kavpreetgrewal@gmail.com | kavpreetgrewal.com | github.com/kavpreetgrewal

EDUCATION

University of British Columbia

Vancouver, B.C

Bachelor of Science in Computer Science — GPA: 92 / 100

Sept. 2019 – May 2023

- 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 20

TECHNICAL SKILLS

Programming	Java, JavaScript, TypeScript, Dart, HTML, CSS, MATLAB, R
Technologies	Flutter, Express.js/Node.js, React, Firebase, MongoDB, TensorFlow, Git

EXPERIENCE

Software Developer

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

Mentor – Programming Team

Sept. 2019 – Present

L.A. Matheson Robotics

Java, LabView

- Mentored team of 7 programmers during their participation in the FIRST Robotics Competition
- 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

Sept. 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

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

- Developed an iOS and Android application to help users log hours towards their goals using Flutter
- 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