

# 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: 93 / 100*

*Vancouver, B.C*

- Coursework: Algorithms and Data Structures, Software Construction, Computer Systems, Relational Databases

## TECHNICAL SKILLS

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### Programming Technologies

Java, JavaScript, C++, Python, TypeScript, Dart, SQL, HTML, CSS  
Node.js, Express.js, Next.js, React, Flutter, MongoDB, GraphQL, Firebase, Git

## EXPERIENCE

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### Rivian

Starting September 2021

*Incoming Software Engineer Intern*

- Will be working on developing full-stack software applications with the Vehicle Management Software team

### Fractional

June 2021 – Present

*Software Engineer Intern*

*TypeScript, Next.js, GraphQL*

- Working on developing a social platform for fractional ownership of investment properties
- Currently driving the end-to-end design and implementation of new products and features

### UBC Launch Pad

September 2020 – Present

*Software Developer*

*TypeScript, Node.js, React, MongoDB*

- Developed a recruitment and club application tool to streamline the recruitment process for student clubs
- Implemented a system to parse applicants' information from a Google Sheet and store the data in MongoDB database
- Reduced application review time by 25% by developing a REST API using Express.js to generate applicant profiles from a Google Sheet, which could then be reviewed and directly graded on the web application
- Collaborated with a team of 7 developers, designers, and strategists in a professional agile environment

### L.A. Matheson Robotics

September 2017 – June 2021

*Mentor – Programming Team | (July 2019 – June 2021)*

*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 by organizing weekly coding workshops

*Programming Team Lead | (Sept. 2017 – June 2019)*

*Java, LabView*

- Increased score output by 42% by optimizing robot's code for efficiency and speed during its autonomous operation and for automatic driver aids
- Led team of five to a 5th place finish at the 2019 FIRST World Championship out of nearly 8000 competing teams

## PROJECTS

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### Notify – SMS News | Hack the North | JavaScript, Node.js, MongoDB

- Designed an application to send news article summaries by SMS to those without reliable internet access
- Integrated News API with IBM text summarization using Node.js to fetch top news articles based on user's query and then generate short summaries to send back to the user
- Reduced news article and text summarization requests by 15% by caching search results in MongoDB database

### 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 stored record of logged hours using Firebase for easy access on any device

### Touchless Webpage Scroller | JavaScript, TensorFlow

- Built a browser extension using TensorFlow hand tracking to enable users to scroll pages without touching their device

## AWARDS & COMPETITIONS

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**University of Waterloo CEMC Fermat Math Contest 2018** – Top 1% of over 21,000 contestants

**University of Waterloo CEMC Galois Math Contest 2017** – Top 4% of over 8,000 contestants

**UBC Y.P. Heung Foundation Award in Science** – Awarded to the top 6 students in cohort of 2,000 students