Kavpreet Grewal

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EDUCATION

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

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

EXPERIENCE

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 a new property governance feature to allow users to manage their investment properties directly on the platform

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

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 | (September 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

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

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