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

TECHNICAL SKILLS

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

EXPERIENCE

Rivian   Starting September 2021
Incoming Software Engineer Co-op
- Will be working on developing full-stack software applications with the Vehicle Management Software team

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 2019 – Present
Mentor – Programming Team   *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

L.A. Matheson Robotics   September 2017 – June 2019
Programming Team Lead   *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 sign-in with Google using 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*
- Built a browser extension with JavaScript to enable users to scroll webpages without touching their device
- Enhanced and simplified user experience while browsing the web by utilizing TensorFlow hand tracking to allow users to scroll by simply raising one or both hands

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