Yuvraj Walia

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EDUCATION

University of Waterloo September 2019 - May 2024
Candidate for BASc in Honours Management Engineering, Co-op *Waterloo, ON*

SKILLS

Languages:	JavaScript, Dart, Python, Ruby, Java, SQL, C#, R, HTML, CSS
Frameworks & Libraries:	React, Express, Flutter, Bootstrap, Selenium, Pandas
General Software:	Android Studio, AWS, PostgreSQL, MongoDB, Node.js, Git

EXPERIENCE

EDify Talks January 2021 - Present
Full Stack Engineer *Cupertino, CA*

· Led a team of developers in developing the website for the 501c(3) international nonprofit EDify Talks, using the MERN stack for web development and hosting on AWS, achieving a monthly average of ~4500 pageviews
· Engineered an efficient sign-up flow, resulting in a unique pageview to sign-up conversion ratio of 17%

Felicity January 2021 - Present
App Dev Engineer *Hamilton, ON*

· Created a robust data collection and analytics pipeline for the productivity app Felicity using Dart for development and Firebase for storage, allowing for an empirically better understanding of the user base
· Heavily redesigned and refactored the analytics page in Flutter allowing users to better monitor their own app usage resulting in 50% more traffic from alpha users than in previous iterations

FundThrough January 2021 - May 2021
Software Developer in Test *Toronto, ON*

· Wrote automation tests with Selenium in Ruby which caught an error with large attachment sizes not being recognized that would have halted product flow for ~8% of users
· Aided in a company-wide re-brand, doing intensive QA and testing on hundreds of webpages, cataloguing dozens of bugs and errors across multiple platforms

Waterloo Engineering Endowment Fund September 2019 - May 2022
Director of Operations, Former cohort representative *Waterloo, ON*

· In charge of the management and distribution of a principal amount of ~20,000,000$, as well as organizing a team of ~60 representatives under my jurisdiction
· Managed the allocation of ~$480,000 in funds to the engineering department and student engineering design team endeavours, helping fund the future of innovation at uWaterloo eng. First as a representative, now as director

Bombardier September 2019 - November 2019
Data Analyst, Contractor *Waterloo, ON*

· Investigated the ION Light Rail Transit system, collecting thousands of unique rider data-sets specifically from lunch-time hours for future use by Bombardier and as an A/B Test to their data collection systems
· Performed data and process analysis using Excel and VBA, optimizing train stoppages and altering train blueprints, resulting in a theoretical decrease in ride-length of 11 minutes during the lunch rush hour

PROJECTS

StockOverflow

· Developed a stock prediction algorithm in Python that applies sentiment analysis to article headlines using Pandas
· Outperformed the S&P500 by an average margin of 13% using data sets accessed through MongoDB

HITSCAN

· Developed an image parser in Python which takes images of documents and converts them into .docx, .pdf files
· Implemented an iterative algorithm which analyzes 360 angles of an image using Google's Tesseract API, reducing mistranslations, allowing the program to run at 97% effectiveness as measured by words correct/total words