Manveer Trehan

Vancouver, BC

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Education

University of British Columbia *- B.Sc. Computer Science*   **2019 – 2024**

Relevant Coursework: Data Structures & Algorithms, Models of Computation, Operating Systems, Computer Systems & Hardware, Machine Learning

Work Experience

Amazon Web Services ↗   **May 2024 – Aug 2024**
Software Development Engineer Intern - EBS Stats   *Vancouver, BC*

- Designed and implemented a federated query system that provides customers with the ability to query their data across **30+** AWS regions in an efficient single query, rather than the original single-zone based querying.
- Created and reviewed thoroughly detailed documentation for building the federated query system and moving towards productionalizing the POC.

Amazon ↗   **May 2023 – Sep 2023**
Software Development Engineer Intern - Alexa Smart Properties   *Vancouver, BC*

- Completed full-stack internationalization work on a customer facing product that allows enterprise property owners and managers to build and deploy custom Alexa Skills, resulting in extended functionality to Canada and additional backend and frontend framework for extension to other future locales.
- Designed and implemented a script that saves dev effort of **2000+** lines of individually copy/pasting resource strings for every new locale that is added to the service and translated through an internal translation tool.

Personal Projects

ML Movie Predictor ↗ | Python + HTML + CSS

- Built a language model that uses random forests to predict the top five most likely movies when given scene descriptions as inputs
- The model is able to classify over **3000** movies with reasonable accuracy

NHL Playoff Status ↗ | JavaScript + CSS + HTML

- Built an app that displays the current playoff status of every NHL team and calculates the remaining record a team needs to achieve to make the playoffs
- Retrieves live statistics for each team through NHL's RESTful API and displays the JSON data in a user friendly manner

Coin Order Tracker ↗ | JavaScript + CSS + HTML

- React app for NBA 2K MyTeam points and Madden NFL MUT coin distributors that provides a simple way to organize and track orders in the short term.
- App was the main mechanism used to track and distribute virtual coins to **100s** of regular customers

Starship Swerve ↗ | Unity + C#

- Developed and deployed a reactive mobile endless runner game with compounding level difficulty

Languages / Skills

- Java
- JavaScript
- TypeScript
- C++
- Python
- HTML + CSS
- React/Redux
- Git
- AWS
- Scikit-learn