Sarvan Gill

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Vancouver, BC
Sarvan13



BASc Engineering Physics with Distinction

University of British Columbia

2017 – 2022 *Vancouver, BC*

¢^a Skills

Languages C++/C, Python, Java, MATLAB, HTML/CSS

Software Linux OS, Windows OS, PyTorch, Git, ROS, SOLIDWORKS, COMSOL Multiphysics

Hardware Soldering, Hand/Power tools, Oscilloscope, Function Generator

Work Experience

Amazon September 2022 – Present

Software Development Engineer (L4)

> Working on public endpoints for buyer experiences on AWS Marketplace

- > Constantly improving, maintaining and catering listings for clients
- > Working primarily in Java and with GraphQL to manage client and team request

Safe Software May 2021 – August 2021

C++ Software Development Intern

Vancouver, BC

Vancouver, BC

- > Worked with a small Agile team on implementing features relating to the manipulation of geometric data
- > Worked with modern C++ features including smart pointers, move semantics, variant logic etc
- > Implemented a new algorithm that improved user run time from the order of hours to seconds (1627x improvement)
- > Created multiple integration, unit and regression tests

Intel May 2020 – December 2020

Firmware Intern Vancouver, BC

- > Contributed to firmware production as a part of a small scrum team following Agile methodology
- > Wrote production firmware in C and C++ for Intel solid-state drives
- > Implemented support for interrupt driven I2C
- > Reviewed and advised on a machine learning model to automate internal processes

TRIUMF Jan. 2019 – April 2019

Co-op Student Vancouver, BC

- > Optimized reflector geometry on photomultiplier tubes for Hyper Kamiokande, JPN
- > Designed a large permanent magnet spectrometer (up to 2 Tesla) for a new experiment in FERMILAB, USA
- > Ran large simulations using a local cluster and Compute Canada Servers

△ Projects

Machine Learning Kaon Classifier

Nov. 2020 - April 2021

- > Created a machine learning model to reject specific backgrounds for an experiment at CERN
- > Implemented two classifiers: a boosted decision tree and a neural net
- > Collaboration with physicists at TRIUMF

greenEats (Winner of NWHacks 2020)

January 2020

- > Won $\mathbf{1}^{st}$ out of 145 teams and 769 participants
- > An all in one grocery management application
- > Personally created a custom API for recipe recommending
- > Used Microsoft Azure for speech to text, and the Firebase MLKit Vision API for OCR