

Jonathan Medhanie

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EDUCATION

**UNIVERSITY OF
BRITISH COLUMBIA**
Bachelor's Degree,
Computer Science &
Mathematics
Vancouver, BC
Sept 2015 - April 2020

SKILLS

Java • Python • Machine
Learning • Android Studio
• SQL • Web Dev • Golang
• Distributed Systems • Git

COURSEWORK

Software Engineering
Discrete Math (Hons.)
Algorithm Design & Analysis
Systematic Program Design
Computer Vision
Game Theory
Linear Algebra
Multivariable Calculus
Linear Programming
Introduction to Probability
Stochastic Processes

LINKS

Website:
johnnymedhanie.github.io

Github:
github.com/johnnymedhanie

Kaggle:
kaggle.com/johnnymedhanie

Hackerrank:
hackerrank.com/johnnymedhanie

LinkedIn:
linkedin.com/in/jonathanmedhanie/

WORK EXPERIENCE

Software Engineer Intern | Cisco Systems, *Cloud Infrastructure*

April 2018 - August 2018

- Optimized an AWS Virtual Machine healthchecker by reducing the number of requests by pattern matching ip addresses/port, reducing time to completion from 30 minutes to 25 seconds
- Implemented a distributed tracing system for our API endpoint, allowing observability into durations of each unique request
- Refactored stage/prod databases' schema minimizing query time

PROJECTS

Depresso | Music Sentiment Analysis with Python

June 2018 - Present

- Utilizes natural language, text processing and machine learning to plot the most emotional songs given any musical artist
- Makes use of Spotify's and Genius' detailed lyric and music library, considering both the song's valence and energy in lyrics and tune
- Plot results to a dynamic webpage stored in Heroku's cloud platform

Buses R Us | Java-based Android App

February 2017 - April 2017

- Build a real-time transit app that displays estimated wait time, nearest stop to user, and bus routes across Vancouver, BC.
- Tested thoroughly with JUnit and made calls to BC Translink's API to obtain real-time data on buses.
- Optimized system resource use, such as by rendering bus paths that are only shown on the screen.

EXPERIENCE

O11YCON - System Observability Conference | Speaker

August 2018 | San Francisco, CA

- Selected to represent Cisco and presented the flaws of monitoring tools
- Organized and led a discussion space where engineers discussed their tracing solutions that they use at their respective companies

DubHacks 2017 | Hacker

October 2017 | Vancouver, BC

- Collaborated with 4 other students to build *Storyhunter*, a real-life comic book adventure app using Marvel Comics web API
- Developed the backend using Python's flask library, while collaborating with team members to debug other components

DEPT. OF NATIONAL DEFENSE | Flight Sergeant

June 2015 - August 2015 | Canadian Forces Base Cold Lake, AB

- Team leader of 40 cadets and taught fundamentals of Leadership, Aviation and Fitness/Sports, while mentoring 4 staff sergeant cadets