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 • C++ • Python • Machine Learning • Infrastructure • SQL • Docker • Go • Distributed Systems

COURSEWORK

Algorithm Design (Graduate)

Software Engineering

Game Theory

Discrete Math (Honors)

Linear Algebra

Multivariable Calculus

Number Theory

Complex Analysis

Introduction to Probability

Stochastic Processes

LINKS

Website:

johnnymedhanie.github.io

Github:

github.com/johnnymedhanie

Linkedin:

linkedin.com/in/jonathanmedhanie/

WORK EXPERIENCE

Software Engineer Intern | Cisco Systems, *Cloud Infrastructure*
April 2018 - August 2018

- Optimized in-house AWS Virtual Machine healthchecker by reducing number requests made 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 user's unique request
- Refactored stage/prod databases' schema minimizing query duration

PROJECTS

Depresso | Music Sentiment Analysis with Python/R
June 2018 - September 2018

- Utilizes natural language, text processing and machine learning to plot the variance of emotions in a songs given any musical artist
- Powered by making calls to Spotify and Genius' API detailed lyric and music library, taking an average of both the song's valence and energy in lyrics and tune.
- Plots processed data to dynamic web page deployed on Heroku

Moment | Reactjs Powered Productivity Browser Extension
May 2018 - January 2019

- Extension that periodically notifies user of personal achievements meant to motivate user to continue improving
- Architected, tested and deployed our backend which served authenticated requests
- Integrated with Chrome API to trigger database requests, periodic user view updates and timed notifications

EXPERIENCE

O11ycon - System Observability Conference | Speaker
August 2018 | San Francisco, CA

- Selected to speak and present the flaws of monitoring tools
- Organized and led a discussion space where fellow engineers discussed their monitoring 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 which processed data before updating user view

Dept. of National Defense | Flight Sergeant
June 2015 - August 2015 | Canadian Forces Base Cold Lake, AB

- Led team of 40 cadets, training them in physical activity and leadership