SHABAB AYUB

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SUMMARY

Python, Go, JavaScript, Ruby, C++ Languages

React, Rails, Django, Apache Kafka, Apache Avro Tools & Frameworks

EXPERIENCE

Shopify May - August 2017 Software Engineering Intern

Waterloo, ON

- · Authored a schema validation package in Go using Avro to police data produced to Kafka
- · Built features with Rails, React and GraphQL for a visual programming app to manage online shops
- · Developed data-driven React components to interact with internal and third-party APIs
- · Optimized CI configuration for Jest React tests to reduce overall build time by $\sim 14\%$

GlossGenius January - February 2017 Developer Intern Remote

- · Researched pipelining data to and from Mechanical Turk with the AWS boto library
- · Architected transfer of user calendar data from AWS S3 and Turk to Django app and PostgreSQL

Greenspace Mental Health

September - December 2016

Software Engineering Intern

Toronto, ON

- · Leveraged JavaScript and Django to refactor data visualizations and optimize therapist dashboard
- · Restructured front-end and database schema to streamline registration process for patients
- · Implemented centralized logging system to track server requests and improve debugging processes

Deloitte January - April 2016

 $Project\ Manager\ Intern\cdot Data\ Management\ Team$

Toronto, ON

· Reduced documentation processes among team to streamline workflow focused on batch processing

PROJECTS

huffleraft git.io/v52eO

- · Developed a distributed fault tolerant key-value store in Go driven by the raft consensus protocol
- · Designed a network layer to redirect commands as HTTP requests to leader node in cluster

alec git.io/vM7Lk

- · Built a neural network package with backpropagation allowing custom iterations and learning rate
- · Bench-marked to 65.2% soft correctness when predicting sine function

firebolt git.io/vXtS8

· Constructed an Android app-controlled electric longboard with Bluetooth communication

EDUCATION

University of Waterloo

Expected 2020

B.ASc in Mechatronics Engineering

Waterloo, ON

Courses: Real-time Operating Systems, Algorithms and Data Structures (C++), Statistics