

SHABAB AYUB

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SUMMARY

Languages	Python, Go, JavaScript, Ruby, C++
Tools & Frameworks	React, Rails, Django, Apache Kafka, Apache Avro

EXPERIENCE

Shopify	May - August 2017
<i>Software Engineering Intern</i>	<i>Waterloo, ON</i>

- 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 ~2 minutes

GlossGenius	January - February 2017
<i>Developer Intern</i>	<i>Remote</i>

- 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
<i>Software Engineering Intern</i>	<i>Toronto, ON</i>

- 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
<i>Project Manager Intern · Data Management Team</i>	<i>Toronto, ON</i>

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

PROJECTS

huffleraft	git.io/v52eO
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- 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
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- 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
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- Constructed an Android app-controlled electric longboard with Bluetooth communication

EDUCATION

University of Waterloo	Expected 2020
<i>B.ASc in Mechatronics Engineering</i>	<i>Waterloo, ON</i>

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