

JAMES LU

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RELATED EXPERIENCE

Product Engineering Intern | Asana May – Aug 2020 | Vancouver, BC

- Built survey screen and reusable container component as part of new churn flow for A/B test experiment to acquire insights into subscribers' actions using React and Typescript
- Designed and implemented a novel integration test framework to automate user paths testing in the new churn flow leading to a 30% reduction in time and effort on testing using Enzyme
- Created and ran migration tool to clean up data inconsistencies automatically in efforts to backfill new data model field

Software Engineer Intern | Uber Sep – Dec 2019 | Palo Alto, CA

- Designed and developed backend microservice that acts as both a central information store for all of Uber's Kafka Topic metadata and a main Topic modification service to increase consistency among Kafka Topic metadata at Uber using Java, Jersey and Dropwizard
- Iterated on service design to ensure reusability among models and to handle requests asynchronously and idempotently
- Implemented diff algorithm to handle modification (create, update, delete nodes and edges) of graph-like Kafka Topic model

Backend Developer Intern | Shopify Jan – Apr 2019 | Ottawa, ON

- Worked closely with product team to migrate all product creation REST APIs to GraphQL to increase compatibility and performance with frontend using Ruby on Rails
- Iterated on API designs to ensure proper GraphQL schema structuring through information encapsulation and code reusability

Software Engineer Intern | Jewlr May – Aug 2018 | Toronto, ON

- Built a new internal web application to automate the product, collection and gift creation process, which improved productivity using Ruby on Rails, React and Redux
- Restructured checkout payment system to include Venmo and refactored coupon subsystem to include cross product selections

VOLUNTEER EXPERIENCE

Software Developer | UW Blueprint Sep 2018 – Apr 2020 | Waterloo, ON

- Coordinated with development team to achieve incremental deliverables and ship fully functional web-app to client on time
- Implemented map-based data visualization platform of Ontario youth mental health services for non-profit using React and Flask

Sponsorship Lead | Hack the North Mar 2018 – Sep 2019 | Waterloo, ON

- Effectively communicated and engaged with 30+ sponsors representatives to ensure a great sponsor experience to raise \$300,000+ budget for 2000+ person hackathon

EDUCATION

University of Waterloo
Bachelor of Computer Science
Sep 2017 – Apr 2022

KEY SKILLS

Languages

Java, Ruby, C/C++, JavaScript, SQL, TypeScript, Python, Bash/Shell, Golang, Rust

Frameworks & Protocols

React, Redux, GraphQL, Apollo, Ruby on Rails, Flask, Node.js, Dropwizard, Enzyme, Jersey, TCP/IP, REST

Data Solutions & Tools

MySQL, Kafka, PostgreSQL, MongoDB, Git, Jira, Docker, AWS

COURSES

Operating Systems, Algorithms, Distributed Systems, Concurrency, Networks, Computer Security

AWARDS

Valedictorian JMSS | 2017

Governor's General Award for Highest Average | 2017

OCDSD Student Recognition Award for Leadership | 2017

3-Time National Medalist in Swimming | 2014 – 2016

Participant ½ Marathon and Triathlon | Summer 2018

INTERESTS

Swimming & Athletics
Writing Screenplays
Baking French Pastries
Theme Parks Enthusiast