Ray Liu

Toronto, Canada

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Experience

Twitter *San Francisco, California (Remote)*
Software Engineering Intern (Developer and Enterprise Solutions team) *June 2020 - Dec 2020*
- Building the new follower graph API using Scala, GraphQL and Strato
- Optimized video metrics of Metrics API by refactoring inefficient processes to reduce load on dependent service by 10%
- Co-led the Block API epic by co-authoring the technical design document and the epic development timeline
- Improved the team's working process by introducing the JIRA Ticket/Phab guidelines in order to provide a consistent level of context for team members working on tickets and code reviews

Shopify *Toronto, Canada*
Software Engineering Intern (Multi Channel, Apps team) *Jan 2020 - May 2020*
- Integrated product syncing services to Shopify's Amazon sales channel to increase merchant satisfaction in product, inventory and order syncing with Ruby on Rails
- Decreased DB CPU load by 15% through query optimization, resulting in avoiding cost in scaling up DB CPU
- Decreased Amazon feed submission job duration by 50%, leading to an increase in efficiency for syncing between Shopify's Amazon Sales channel and Amazon marketplace
- Experimented with DB/Redis sharding for sales channel apps to handle sudden increase (2x-3x) in users due to COVID-19
- Supported various partners with their Shopify App beta/GA launch (eg. Walmart, Ebay, Facebook)

Tesla *Palo Alto, California*
Software Engineering Intern (Energy, Supercharger Service Engineering Team) *Sept 2019 - Dec 2019*
- Developed services to detect more than 80% of the Supercharger field issues using telemetry data with Python, PySpark, SQL, Presto and Jenkins
- Developed API to configure Superchargers globally to be utilized by various services in the Energy Organization with Flask
- Developed Tesla's internal OS, WARP, API client with Python to be used widely by the Energy organization

Publicis Sapient (Publicis Groupe) *Toronto, Canada*
Software Engineering Intern *June 2019 - Aug 2019*
- Designed and implemented a gated content subscription service to increase user engagement of a big four accounting firm's platform with Java and Spring Boot

Jumpstart *San Francisco, California*
Growth Marketing Intern *Mar 2019 - Dec 2019*
- Provided feedback and strategies for product and engineering teams that led to an increase in user acquisition and engagement for Jumpstart's ML recruiting platform

Education

McMaster University *Hamilton, Canada*
B.Eng in Software Engineering | GPA: 3.7 *Expected Graduation: April 2021*

Projects

GitCollabin
https://github.com/CheRayLiu/GitCollabin *2019*
- Developed a colloboration platform where developers can find each other with similar development interests to collaborate on open source projects by using React, GraphQL, Django, and PostgreSQL

Say-gRPC
https://github.com/CheRayLiu/say-grpc *2019*
- Implemented a text to speech server with Go, gRPC, Protocol Buffers, flite, Kubernetes and GCP

Skills

Languages Python · Ruby · Java · SQL · Javascript
Frameworks Ruby on Rails · Django · Flask · Spring Boot
Tools and Others Git · GraphQL · MySQL · Docker · Kubernetes · GCP · PostgreSQL