

Jason Kwok

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Work Experience

Ripple | Software Engineering Intern

San Francisco, California (Jan - Apr 2020)

- Built authentication features for distributed payment services in Spring Java and PostgreSQL performing 150k+ monthly transactions
- Developed JWT verification filter with Spring Security and Auth0 to authorize requests for exchange account transactions
- Created authentication microservice to implement SSO functionality as a part of the customer documentation site release
- Implemented Gitlab testing pipeline for a multi-container application

AdRoll | Software Engineering Intern

San Francisco, California (May - Aug 2019)

- Built advertisement library microservice with Flask Python and PostgreSQL serving 10M+ ads for 400k+ active customers monthly
- Developed advertisement designer React/Redux component for publishing Facebook and LinkedIn ads to a realtime bidding pipeline
- Implemented Redis MQ for syncing legacy monolith with ad service processing 1M+ daily jobs and monitored queue with DataDog

IBM | Software Developer Intern

Toronto, Ontario (Sep - Dec 2018)

- Developed document processing service in Spring Java that leveraged Watson's NLP to efficiently identify key sentences in 1k+ paged PDFs
- Architected IBM MQ infrastructure to reduce PDF parsing time by 55% through offloading processing work to a document microservice
- Designed shared PDF management React/Redux components to improve customer document viewing and editing experience

Tulip | Software Developer Intern

Toronto, Ontario (Jan - Apr 2018)

- Implemented social messaging features in Laravel PHP that enabled store associates to contact customers via SMS, email and Facebook
- Improved customer look-up by reducing search response time by 75% using Apache Solr and implementing search debounce and throttle
- Increased Tulip platform integration test coverage from 60% to 75%

Education

University of Waterloo

Computer Engineering

4th Year, Apr 2021 Grad

Skills

Languages

Java, Python, C, C++, SQL, JavaScript, PHP

Frameworks

React/Redux, Spring, Flask, PostgreSQL, Auth0

Tools

Docker, Git, Redis, AWS, Firebase, HashiCorp Vault

Projects

Grocery Wayfinder

Mobile app to calculate in real-time the most efficient route to pick-up a list of desired items in a grocery store for a shopper, using React and Flask.

Ad Correlation App

Analytics app to show likelihood that a shopper will make a purchase after viewing the product's FB advertisement, using React, Flask and Apache Spark.