CHRISTOPHER **CHANG**

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**Education**

**University of Waterloo** Sept 2014 - Apr 2019

**Bachelor of Computer Science**

• **Courses:** OOP in C++, Compilers, Algorithms, Operating Systems, Data Structures

**Skills**

Languages: C++, Python, Java, Ruby, Javascript, Go

Technologies: React.js, Ruby on Rails, Next.js, MySQL, Postgresql, AWS, Bash, Git, Docker

**Professional Experience**

**Flexport** San Francisco, CA

Software Engineering Intern - Client Application Team Sept 2018 – Dec 2018

• Built UI components in React.js to digitize the process of global trade

• Designed and implemented data models in Ruby on Rails to model various processes in global trade

**Facebook** Menlo Park, CA

Software Engineering Intern - Audience Insights Team May 2018 – Aug 2018

• Built a testing framework to ensure stability of audience insights estimation query engine in C++

• Reduced cache size by 36% for ads estimation service by applying Elias Fano encoding to user data

• Designed and implemented the migration and deployment plan to use Elias Fano encoded data

**Google** Seattle, WA

Software Engineering Intern - Cloud Team May 2017 – Aug 2017

• Implemented a database to store project resource information to drive resource allocation

• Productionized a service that automatically pushes Google Cloud app monitoring configurations

• Implemented alerting, monitoring, and a release pipeline in python

**Bloomberg L.P.** New York, NY

Software Engineering Intern - Fixed Incomes Team Jan 2017 – Apr 2017

• Designed and implemented a bond calculation service that powers terminal’s most used feature

• Created a data pipelines in Python to backfill bond price data in database

**Toast Inc.** Boston, MA

Software Engineering Intern - Enterprise TeamJan 2016 – Apr 2016

• Built an engine on the back-end to setup and resolve “buy one get one” free discounted orders

• Designed and developed data models in Java Hibernate to create a minimum viable product

• Built graphs using Google Charts library and jQuery for visualization of restaurant sales metrics

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**CareGuide Inc.** Toronto, ON

Software Engineering Intern - Growth TeamApr 2015 – Aug 2015

• Led implementation of a new metrics dashboard using Grafana, Graphite, InfluxDB for board members

• Automated database backup and encryption Cron job using AWS and SHA-256

• Implemented UI designer’s mockups of new email interfaces on the Rails application