CHRISTOPHER **CHANG**

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Education

University of Waterloo, Sept 2014 - Apr 2019
Bachelor of Computer Science

- **Key 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

Sept 2018 – Dec 2018, San Francisco, CA
Software Engineering Intern - Client Application Team

- 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 (now Meta)

May 2018 – Aug 2018, Menlo Park, CA
Software Engineering Intern - Audience Insights Team

- 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

May 2017 – Aug 2017, Seattle, WA
Software Engineering Intern - Cloud Team

- 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.

January 2017 – May 2017, New York, NY
Software Engineering Intern - Fixed Incomes Team

- 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.

January 2016 – May 2016, Boston, MA
Software Engineering Intern - Enterprise Team

- 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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