# Edward Ren

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| Languages | Python, Ruby, GraphQL, JavaScript, SQL, C++, Elixir, Scala, C, Bash |
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| Technologies | Django, Rails, Node.js, Kafka, Docker, React, Redis, Spark, Datadog, MongoDB |

## Experience

**Shopify** / Orders Backend Developer                                       Remote, Jan 21 – Apr 21
- Highly optimized draft order creations using **Ruby** attribute schemas to pre-validate inputs and cutting response time by up to **80%** for orders accounting for **15%** of all gross merchandise volume (GMV)
- Defined **GraphQL** endpoints to update overdue dates upon sending an invoice for orders
- Developed dashboards in **Datadog** by tagging low cardinality metrics from **GraphQL** requests

**Postmates** / Merchants Backend Developer                                  Remote, May 20 – Aug 20
- Redesigned payments pipeline in **Django** to individually label aggregated fees for 14,000+ shops
- Created API endpoint in **Elixir** to independently update menu items, cutting compute bottleneck by 40%
- Defined Avro schema generation tools to migrate **Kinesis** logs to **Kafka** events in **GCP**

**TextNow** / Internal Tools Developer                                       Waterloo, Sept 19 – Dec 19
- Developed job scheduling system in **Ruby** to remove inactive phone plans and saving $2000 monthly
- Implemented RESTful API in **Ruby** to support parent-child user relationships in subscription payments
- Rerouted device tracking service in **React** by batching API calls to **Redis** to cut load speed by 90%

**IBM** / Cognitive Software Developer                                       Calgary,  Jan 19 – Apr 19
- Designed pipeline to transfer partitioned **Spark** dataframes to IBM **Cloud S3**, leading to 75% faster writes
- Parallelized Pandas merging operations with Dask to speed up business analytics computations by 30%
- Tuned **scikit-learn** Adaboost classifier as part of a first of a kind AI mineral deposit prediction model

**BlackBerry QNX** / Software Engineering Intern                             Ottawa, May 18 – Aug 18
- Developed **Dockerized** package regulatory system with **Django** to cut time spent on certifications by 90%

**Ciena** / Open Source Software Intern                                      Ottawa, Jul 16 – Aug 16
- Mass-crawled remote repositories in **Python** to obtain URLs for 2,100+ licenses from 80+ sources

## Projects

**CHEO Engagement Simulator** / InternHacks Winner / PM, Developer                    2021
- Developed platform using **Javascript** and **H5P** for informative interactive videos in hospital training

**WATonomous** / Web Team Captain                                                    2017-2019
- Created and lead team in developing website in **React** with **Node.js** backend for member applications

**Recycle Can** / Creator and Developer (_recyclecan.ca_)                             2017
- Developed eco-navigation app in **Swift** with 18,000+ downloads to guide users to recycling centres

## Education

**University of Waterloo** - _Bachelor of Software Engineering_               Sept 2017 – Apr 2022
- **GPA: 3.9/4.0** (Third year) | 2x Deans Honours List recipient
- **Courses**: Relational Databases, Algorithms, Concurrency, Data Structures and Data Management

**Interests -** skiing, chandlery, blitz chess, card magic, speedcubing, cross country, bouldering