

# Edward Ren

github.com/EdwaRen  
edwardren.me  
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**Languages** Python, Ruby, SQL, C++, Elixir, C, Swift, HTML/CSS

**Technologies** Django, Node.js, GCP, Ruby on Rails, Kafka, Pandas, MongoDB, Docker, React

## Work

**Shopify** Ottawa (Remote), Ontario  
Backend Developer Jan 2021 – April 2021 (Expected)

- Developing payment terms on the Orders team using **Rails** to support pay in monthly instalments

**Postmates (Uber)** San Francisco (Remote), California  
Backend Developer May 2020 – Aug 2020

- Redesigned payments pipeline in **Django** to individually label aggregated fees for 20000+ 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** Waterloo, Ontario  
Full Stack Developer Sept 2019 – Dec 2019

- 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** Calgary, Alberta  
Cognitive Software Developer Jan 2019 – Apr 2019

- 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%

**BlackBerry QNX** Ottawa, Ontario  
Software Engineering Intern May 2018 – Aug 2018

- Developed **Dockerized** package regulatory system with **Django** to cut time spent on certifications by 90%

**Ciena** Ottawa, Ontario  
Open Source Software Intern Jul 2016 – Aug 2016

- Mass-crawled remote repositories in **Python** to obtain URLs for 2,100+ licenses from 80+ sources

## Projects

**Coffee N' Code** | Data Science Lead | SQL, Pandas, scikit-learn, TensorFlow 2018

**Recycle Can** | Creator and Developer ([recyclecan.ca](http://recyclecan.ca)) | Swift, React 2017

- Developed navigation app with 18,000+ downloads to guide users to nearby 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 | ACT: 35/36
- Courses: Database Systems, Data Structures and Data Management, Algorithms, Concurrency

## Interests

skiing, blitz chess, cross country, card magic, speedcubing, bouldering, hiking, coffee n' code