

Jonathan Gin

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Skills

Programming Languages TypeScript/JavaScript, Ruby, Python, Java, HTML/CSS (Proficient) • Rust, C (Prior Experience)
Tools and Technologies Ruby on Rails, GraphQL, MySQL, Node.js, React, Flask, Express, JavaFX

Experience

Shopify - Checkout Orders

Remote

BACKEND DEVELOPER (PART-TIME)

Jan 2021 - Present

- Develop a large scale application to power Shopify Checkout flows using **Ruby on Rails** and **GraphQL**.
- Evaluate strategies to migrate legacy code to meet new requirements and achieve feature parity.
- Propose and document domain objects to address novel use cases.

Shopify - Experiment Platform

Remote

DATA ENGINEER (PART-TIME)

May 2020 - Dec 2020

- Built and launched internal experimentation platform, empowering teams to conduct cross-surface experiments.
- Championed a team of three responsible for creating a data visualization tool to calculate the number of samples required to attain significance using Bayesian statistics.
- Identified and removed a bottleneck during experiment group partitioning, improving worst case performance by **99.7%**.
- Developed data pipelines to process and analyze data using **Python** and **Apache Spark**.
- Authored and documented new performance metrics written in **SQL**.
- Conducted usability testing sessions with data scientists to iterate and improve product.

Shopify - Shopify Fulfillment Network

Toronto, Ontario

FULLSTACK DEVELOPER (PART-TIME)

May 2019 - May 2020

- Worked on the Shopify Fulfillment Network prior to launch and supported application post-launch.
- Built **GraphQL** endpoints and constructed data models to support the application backend.
- Developed and maintained modular frontend components along with comprehensive unit tests using **React**, **Jest** and **Enzyme**.
- Wrote middleware software to integrate internal APIs with third party logistics.

Chinatown Business Improvement Area

Toronto, Ontario

TEAM LEAD AND EVENT ORGANISER AT THE TORONTO CHINATOWN FESTIVAL

May 2017 - Aug 2019

- Acted as a team lead and organizer for the Toronto Chinatown Festival, which attracted **200,000+ visitors** over a two day period.
- Played an active role during the event planning process by leading the discussion around youth engagement.
- Managed a rotating team of 8-12 volunteers responsible for booth staffing, visitor surveying, and crowd control during the event.
- Served as an ambassador for the Chinatown Business Improvement Area during discussions with vendors.

Featured Projects

Dev Degree Dashboard | REACT, GRAPHQL, RUBY ON RAILS

- Built a fullstack web application to track Dev Degree students' past projects and teams using **Ruby on Rails**, **React**, and **GraphQL**.
- Aggregate data from various sources and programmatically refresh data daily.
- Set up performance monitoring with **Datadog**, as well as error handling and reporting using **Bugsnag**.
- Implemented user authentication, continuous integration, and continuous deployment.

AutoDeck | NODE.JS, EXPRESS, REACT, GCP

- Built a slide deck creation tool that dynamically generates a PowerPoint presentation while the user is presenting.
- Created a Google Slides API client using **Express** and **Node.js** to manage slide elements in real time.
- Leveraged **Google Cloud NLP** for entity extraction and salience calculation.
- Selected as one of the winners at PennAppsXX (≈1250 participants).

ProfitOverflow | PYTHON

- Created a cryptocurrency portfolio manager that automatically conducted high-frequency Bitcoin trading using predictions made by a recurrent neural network built with **Keras** on top of **TensorFlow**.
- Trained model using data gathered via the Coindesk API and fetched real-time data from *cryptowat.ch* to generate bi-minutely predictions.
- Awarded first place prize at Hack the Hammer (≈100 participants).

Education

York University, Lassonde School of Engineering

Toronto, Canada

B.Sc., HONS. COMPUTER SCIENCE (INDUSTRY STREAM - DEV DEGREE)

Sep 2018 - Exp. Apr 2022

- Selected as one of ten students to participate in the Shopify Dev Degree program, a 4-year work-integrated learning program offered by Shopify and York University Lassonde School of Engineering that combines 4500 hours of work experience with an accredited Computer Science Degree