

Danial Mohazab

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Applied Science in Mechatronics Engineering (3.88/4.00)

Sept. 2017 – May 2022

Courses: Data Structures & Algorithms, Cooperative & Adaptive Algorithms, RTOS, Microprocessors

TECHNICAL SKILLS

Languages: Python, Java, Ruby, C++, C, SQL, TypeScript, Bash, HTML/CSS

Tools and Frameworks: Flask, Spring, Rails, GraphQL, Git, Redis, MediaPipe, Docker, Pandas, TensorFlow, OpenCV

EXPERIENCE

Software Developer

Jul. 2022 – Present

Shopify

Remote

- Development and optimization of solutions on the order visibility team as part of the Shopify Fulfillment Network, enabling merchants more visibility on order fulfillment that is offloaded to Shopify centers
- Optimized database queries in Ruby on Rails by developing a batch loader to eliminate existing and future N+1 queries, increasing efficiency of calls by up to 8x on average

Siri Product Management Intern

May 2021 – Aug. 2021

Apple Inc.

Cupertino, CA

- Drove development of a new pronunciation feature from ideation by conducting initial user research, defining product requirements, and leading product reviews with the Siri leadership team
- Improved feature ML models from 48% to 89% accuracy by streamlining additional data collection and annotation
- Developed high-level technical architecture that facilitated resourcing required to achieve quarterly key results

Backend Development Intern

Jan. 2021 – Apr. 2021

Shopify

Waterloo, ON

- Enhanced order cancellation using Ruby on Rails and GraphQL by leveraging courier APIs to identify granular cancellable states, eliminating 200+ support tickets per week and providing merchants more time to cancel orders
- Redesigning order validation to allow orders with missing information to be ingested and held for user action rather than declined, improving order retention of an average of 300 orders per week
- Refactored the Shopify Fulfillment Network back-end architecture and order flow to support subscriptions

Backend Development Intern

May 2020 – Aug. 2020

Shopify Plus

Waterloo, ON

- Implemented a feature enabling 5000+ enterprise users to copy all client-facing UI and UX across store locales using Ruby on Rails and GraphQL, giving merchants the opportunity to start new storefronts quickly
- Developed an API job request throttle using the leaky bucket algorithm by storing rate limit consumption in Redis and constraining bucket capacity to 60%, avoiding rate limiting errors when transferring data

Software Development Intern

Sept. 2019 – Dec. 2019

HelloFresh Canada

Toronto, ON

- Developed a back-end application in Python and Pandas to process and serve distribution data required for package delivery, saving 30+ hours/week and affecting all Canadian consumers
- Created a GraphQL API layer using Flask for a MySQL database to avoid multi-application direct database access

Software Development Intern

Jan. 2019 – Apr. 2019

OANDA Corp.

Toronto, ON

- Developed a RESTful microservice in Java using Spring that serves platforms with news articles in real-time

PROJECTS

- Developed the ML component of an ASL translation device using Python, OpenCV, TensorFlow, and MediaPipe that makes two-way communication in service environments more friendly for hard of hearing and deaf people [↗](#)
- Developed a guitar playing robot in C++ using Lego EV3, including calibration after song termination [↗](#)