Danial Mohazab

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EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Applied Science in Mechatronics Engineering   *Sept. 2017 – May 2022*
Courses: Data Structures & Algorithms, RTOS & Computer Structures, Microprocessors & Digital Logic

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

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
- Redesigned order validation checks in Ruby on Rails to allow orders with missing information to be ingested and held for user action rather than declined, improving order retention
- 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 themes across store locales using Ruby on Rails and GraphQL
- 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
- Wrote unit tests in RSpec and Ruby to improve code coverage by 28% on a new store creation flow

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 application direct database access
- Led team DevOps process by dockerizing and deploying apps to GitLab CI/CD pipelines using Kubernetes

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
- Refactored exchange rate visual chart endpoint to reduce stock rate data load time on trading platforms by 32%

Software Development Intern   Apr. 2018 – Aug. 2018
HomeTrust Company   *Toronto, ON*
- Created an ML model using TensorFlow to predict mortgage funding likelihood at 97% accuracy for loan filtering

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 ⬀