

LAITH KAMALEDDINE

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Technical Skills

Languages: Python, Ruby, C, C++, JavaScript, Java, SQL, HTML/CSS, Golang

Technologies: Rails, Django, Flask, Node.js, Spring, Docker, Kubernetes, GRPC, Git, AWS, React, React Native, Vue, Redux, MySQL, JUnit, Pytest, Travis CI, Gitlab CI, Jenkins

Experience

Wish

Sept 2021 – Dec 2021

Software Engineer (Co-op)

Remote

- Led the design and development of various high impact features for Wish's globalization team.
- Independently created a plug-and-play sidecar service to provide translation and globalization functionality, reducing onboarding time for new microservices by ~50%.
- Decoupled globalization logic on client microservices into an independent service to drastically simplify the codebase and improve maintainability.
- Fixed performance issues for high-impact microservices with strict latency constraints through the migration from REST to GRPC protocol, reducing latency by ~85%.
- Improved accuracy of estimated shipping dates for ordered products in non-USA countries through a localized shipping date calculator that accounts for a country's local holidays and weekends.
- Took ownership of several quarterly objectives (OKRs) and drove them to completion.
- Oversaw the lifecycle of several large-scope initiatives from design discussions to production release, gaining extensive experience in SLA management, monitoring, and Kubernetes.
- Successfully completed on-call rotations for high-impact APIs supporting client-facing microservices.

National Bank of Canada

Sept 2020 – Dec 2020

Chatbot Software Developer (Co-op)

Remote

- Built an internal CLI tool to automate repetitive tasks done by the ML team such as creating, training, testing, and versioning chatbot neural nets, causing a boost in efficiency and halving time required for each chatbot release.

OpsLevel

Jan 2020 – Apr 2020

Software Developer (Co-op)

Toronto, ON, CA

- Developed an ETL pipeline to send DB snapshots to S3 while minimizing memory usage costs via a batch streaming strategy, reducing server-side memory usage by ~95% compared to regular uploading.
- Leveraged Rails Action-Cable (Websockets) to add live updating to critical user-facing dashboards and improve UX.
- Added server, DB, and application metrics in Datadog for improved backend visibility.
- Created a backend infrastructure in Rails for chaining asynchronous background jobs.

NCR

May 2019 – Aug 2019

Software Developer (Co-op)

Waterloo, ON, CA

Genesys Telecom Labs

Sept 2018 – Dec 2018

Software Developer (Co-op)

Markham, ON, CA

Education

University of Waterloo

Sep 2017 – Apr 2022

Bachelor of Applied Science, Computer Engineering

Waterloo, ON, CA

- Data Structures and Algorithms
- Large-Scale Software Architecture and Design
- Database Systems
- Advanced Topics in Computer Networks
- Object-Oriented Software Development
- Real-Time Operating Systems

Projects

AlteredSound Tool

React, Flask, Librosa, Docker, Kubernetes, Travis CI

- Built a webapp to perform modifications on uploaded audio files such as pitch shifting, time scaling, vocoding, etc.

Car Sales App – Backend + CLI Tool

Python, MySQL, Arqparse, Pandas

- Created a BCNF and ACID-compliant database in MySQL based on raw historic car sales data from Kaggle, along with a CLI in Python providing full CRUD functionality for user accounts and car postings.