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

PROFESSIONAL EXPERIENCE

Wish – *Software Engineer (Co-op)* Sept 2021 – Dec 2021

- 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 – *Chatbot Software Developer (Co-op)* Sept 2020 – Dec 2020

- 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 – *Software Developer (Co-op)* Jan 2020 – Apr 2020

- 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.
- 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 – *Software Developer (Co-op)* May 2019 – Aug 2019

Genesys Telecom Labs – *Software Developer (Co-op)* Sept 2018 – Dec 2018

EDUCATION

University of Waterloo – Candidate for B. A. Sc. In Computer Engineering Expected Graduation in Apr 2022

- 88% cumulative GPA. Dean's Honours List 2020.
- Notable courses include Data Structures and Algorithms, Large-Scale Software Architecture, Database Systems, Advanced Topics in Computer Networks, Object-Oriented Software Development, and Real-Time Operating Systems.

PROJECTS

Altered Sound Tool: Built a webapp using Flask and Librosa to perform modifications on uploaded audio files such as pitch shifting, time scaling, vocoding, etc.

Meza: Created a mobile app using React Native and Node.js using test-driven development strategies (TDD) that scores a food product's healthiness based on a photo of its ingredients. Leveraged technologies such as Tesseract.js, Google API, and Watson API for OCR, automated ingredient research, and sentiment analysis respectively.

Car Sales App – Backend + CLI: 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.