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)* – *San Francisco, CA (Remote)*   Sept 2021 – Dec 2021
- Led the design and development of various high impact features for Wish's globalization team and drove several quarterly objectives to completion
- 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 in **Python** that accounts for a country's local holidays and weekends
- Took ownership of 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 – *Software Developer (Co-op)* – *Montreal, QC (Remote)*   Sept 2020 – Dec 2020
- Built an internal **CLI** tool using **Python** and **Argparse** 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)* – *Toronto, ON*   Jan 2020 – Apr 2020
- 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 monitoring
- Created a backend infrastructure in Rails for chaining asynchronous background jobs

NCR – *Software Developer (Co-op)* – *Waterloo, ON*   May 2019 – Aug 2019
- Implemented biometrics and anti-root features for NCR's mobile deposit application using **Cordova** and **IBM Trusteer**

Genesys Telecom Labs – *Software Developer (Co-op)* – *Markham, ON*   Sept 2018 – Dec 2018
- Developed core features within Genesys' cloud platform, notably a microservice in **Java** for on-the-fly voice translation designed for international VOIP call centers

EDUCATION

University of Waterloo – Candidate for B. A. Sc. In Computer Engineering   Sept 2017 – 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 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 CLI: Created a BCNF-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.