

LAITH KAMALEDDINE



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laithkd.com

CONTACT

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SKILLS

Languages

Python	Ruby
C & C++	JavaScript
Java	HTML/CSS
Bash	Perl

Frameworks and Technologies

Rails	Vue.js
Node.js	React.js
Django	Flask
Spring	Docker
Kubernetes	MySQL
Pandas	SciKit Learn
Travis-CI	Gitlab-CI

COURSEWORK

Object Oriented Software Development

Data Structures and Algorithms

Database Systems

Computer Networks

Systems Programming and
Concurrency

Real-Time Operating Systems

EDUCATION

University of Waterloo (UW)

BA.Sc Comp. Eng. (2022)

Dean's List – 3A term (2020)

OTHER INTERESTS

Volunteering: RCM, WS Aquatics

Music: Piano, Electric Guitar

Languages: English, French, Arabic

RELEVANT WORK EXPERIENCE

2020 Chatbot Software Developer | National Bank of Canada

- Led the development of DSP-CLI, an internal tool for the bank's chatbot cloud.
 - Provided features such as creation of chatbot instances, automated training/testing, and model configuration version control, improving efficiency of the data science team by 50%+ (halved time required for each chatbot update cycle).
- Improved visibility and performance of the chatbot Kubernetes cluster.
 - Added Datadog metrics and Jenkins pipeline optimizations to various microservices.
 - Kickstarted the conversion of the gateway microservice from Java to Elixir, resulting in an estimated doubling of throughput per instance of that service.

2020 Software Developer | Opslevel

- Developed Opslevel ETL, a pipeline allowing clients to receive periodic data snapshots from Opslevel's database into their S3 buckets.
 - Streamed data in batches to S3, which minimized server-side memory/storage usage by 95%.
 - Used Stop-Replication strategy to preserve database consistency.
- Leveraged Rails Action-Cable (Websockets) to add live updating to the frontend.
- Added server, DB, and application metrics in Datadog for improved backend visibility.
- Created a backend infrastructure in Rails for chaining async background jobs.

2018 Software Developer | Genesys Telecom Labs

- Developed core features within Genesys' cloud platform, notably a microservice for on-the-fly voice translation designed for international VOIP call centers.
- Built full CI/CD deployment pipelines in Jenkins for various microservices.

2019 Software Developer | NCR Canada

2017 RPA/AI Developer | KPMG LLP

PROJECTS

Meza | React Native • Node • Express • Flask • PostgreSQL

- Created a mobile app 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 | Python • MySQL • ArgParse • 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.
- Incorporated best practices for security, including one-way hashing, salting, escaping, and input sanitization.