

# LAITH KAMALEDDINE



github.com/lkaldyne



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laithkd.com

## CONTACT

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## SKILLS

### Languages

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

### Frameworks and Technologies

Rails	Vue.js
Node.js	React.js
Django	Flask
Spring	Docker
MySQL	SciKit Learn
GoCD	GitlabCI

## COURSEWORK

Object Oriented Software Development

Data Structures and Algorithms

Systems Programming and Concurrency

Embedded Microprocessor Systems

Computer Architecture and Processor Design (RISC-V)

## EDUCATION

University of Waterloo (UW)  
BA.Sc Comp. Eng. (2022)

## OTHER INTERESTS

**Volunteering:** RCM, WS Aquatics

**Music:** Piano, Composition

**Languages:** English, French, Arabic

## RELEVANT WORK EXPERIENCE (Applicable to this Position)

### 2020 **Software Developer** | Opslevel

- Developed Opslevel ETL, a pipeline allowing clients to receive periodic serialized data snapshots from Opslevel's database into their AWS S3 buckets.
  - Minimized both server-side memory usage and bucket storage usage by streaming data to S3 in GZipped batches.
  - Preserved ACID properties of the database using various strategies, namely stop-replication.
- Leveraged Rails ActionCable (Websockets library) to replace auto-refreshing with live-updating in various sections of the front-end.
- Achieved a 90% increase in overall performance visibility through the addition of server, database, and application metrics in Datadog.
- Created a backend infrastructure that allows asynchronous background jobs to be progress-tracked and to run sequentially through callback-chains.

### 2019 **Software Developer** | NCR Canada

- Led the development of various frontend and backend features across NCR's banking application, APTRA Passport.
- Utilized Cordova and IBM Trusteer solutions to integrate biometrics login and anti-root security features into NCR's mobile deposit application.

### 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 for various microservices.

## 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.

### **The Auto-Committer** | [React](#) • [Node](#) • [Express](#) • [MongoDB](#)

- Built a web app to make any developer look like a dedicated code guru. Auto-Committer performs customizable, routinely commits to GitHub daily or weekly on behalf of its users, giving them a pleasing and colorful commit history.
- Researched and successfully incorporated best practices for security, including one-way hashing, salting, escaping, and CSRF prevention.