

Tyler Laporte

Personal Info

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Languages

- Java 8+
- JavaScript (ES6)
- MySQL
- PostgreSQL
- Python
- HTML
- CSS/Sass

Libraries & Frameworks

- Spring
- React / Redux
- Angular
- jQuery
- AspectJ
- MyBatis
- JUnit
- Mockito

Software & Tools

- Git
- GitLab CI/CD
- Apache Solr
- Elasticsearch
- Zookeeper
- Ansible
- Tomcat
- Maven
- Docker
- Kubernetes
- Jenkins
- TeamCity
- Prometheus
- AlertManager
- Grafana
- Google Tag Manager
- Jira

Operating Systems

- Linux
- macOS
- Windows

Experience

Software Developer

Autodata Solutions, London, ON

May 2017 – Present

- Led development team in a system wide refactor of a multi-module Java/Spring project to transition searching functionality from bitwise MySQL queries to Apache Solr. This resulted in a more readable, maintainable, and testable codebase that resolved multiple performance bottlenecks.
- Investigated and resolved production issues for client-facing applications. This included explaining complicated problems to business clients and offering support to help resolve issues with how the client consumed data provided by our services.
- Implemented performance improvements in web services with a load of over a million requests per day by analyzing real production use cases and optimizing MySQL queries for the most common request patterns. This resulted in a near 50% (~2 seconds) average performance gain per request which allowed us to meet SLA performance requirements.
- Provided continuous mentorship to junior developers through code reviews, pair programming, knowledge transfer sessions, and design discussions with a focus on weighing the benefits and drawbacks of each potential solution.
- Created onboarding application with stubbed out tasks to help new hires gain experience with the common tech stack used within our business unit: Java, Spring, React, and MySQL.
- Designed restructure of a Spring Batch ETL which resulted in a reduction of execution time from 1 hour to 10 minutes that drastically improved one of the main bottlenecks for getting newly authored incentives live on dealer websites.
- Architected and implemented fault tolerant message queue service to handle data synchronization between MySQL and Apache Solr.
- Built various applications and implemented feature enhancements with care to ensure the solutions were performant, testable, and maintainable while meeting code quality standards.

Software Development Intern

Autodata Solutions, London, ON

May 2015 – August 2016

- Built an execution time analytics tracking Java library with AspectJ and Aspect Oriented Programming methodology. Used on multiple projects to easily record the execution time of API endpoints in Google Analytics.
- Implemented new coupon functionality with Java and Angular JS in e-commerce web application.
- Replaced error-prone manual data entry process by creating a Spring Batch ETL that consumed financial data feed files and populated the data in MySQL.

Projects

Incentive and Offer Management

Autodata Solutions

- Monolithic project consisting of multiple web applications, web services, and ETLs that are used by GM to author incentives and offers that are served up to GM partners and dealers. Java/Spring, ExtJS, MySQL, Solr.

Recipe Manager

Side Project: [github.com/recipe-manager](https://github.com/tylerlaporte/recipe-manager)

- Application used to create recipes and automatically calculate nutritional information from the listed ingredients. Java/Spring, React/Redux, PostgreSQL, ElasticSearch.

Education

University of Western Ontario, London, ON

Sept 2012 – May 2017

Bachelor of Science, Honors Specialization in Computer Science

- Dean's Honors List, Western Scholarship of Excellence.