

MITCHELL SCOTT SANDRE

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EDUCATION

University of Waterloo
Software Engineering 2021
3B Term - 3.7 GPA

SKILLS

Languages: Java, TypeScript, C++, SQL, Groovy, Python, C
Technologies: Spring MVC, Apache Solr & Lucene, Google Firebase, Node.js, Git, Elastic Search, React Native, NoSQL, MySQL, JPA

EXPERIENCE

VEEVA SYSTEMS - Backend Developer Intern - Toronto, ON

May - Aug 2019

- Developed backend API for custom entities in Network Explorer, a graph-exploration tool for healthcare relationships. Added node expansion, custom filtering, and efficient search capabilities using **Java, Spring MVC, SQL, Elastic Search** and **JPA**
- Created and optimized in-memory index to perform robust address validation lookups using **Apache Lucene**
- Wrote **Groovy** script that parsed and migrated over 100,000 customer geocode records

SAP CANADA - Software Developer Intern - Montreal, QC

Sept - Dec 2018

- Designed automated testing framework that allowed for more modular tests, customized validations and quicker development using Java, **Selenium** and Spring MVC. This decreased regression test runtime by **40%**
- Implemented facade architecture in Cloud Commerce library, significantly reducing codebase complexity
- Fixed variety of critical issues affecting storefront search faceting and product display using **Angular** and **RxJS**

500 LABS CANADA - Mobile Developer Intern - Toronto, ON

Jan - Apr 2018

- Added core features to Bunch, a social gaming iOS app using **React Native, Google Firebase** and **Redux**
- Re-engineered the main feed used throughout the app to be faster, more modular and far more maintainable
- Designed **NoSQL** database and implemented Firebase Cloud Functions backend for Telestrations party game
- Improved onboarding completion rates by **10%** by redesigning and streamlining redux architecture

LYRICFIND - Full Stack Developer Intern - Toronto, ON

May - Aug 2017

- Increased speed of key assignment-manager web application by **300%** by optimizing backend handling of asynchronous database calls using Java, SQL and Ajax
- Created new search feature for lyric usage data analytics using **React, jQuery** and **Apache Solr**, increasing querying speed by **200%**. This made key information available for business and publishing teams

TD SECURITIES - Java Developer Intern - Toronto, ON

May - Aug 2016

- Reduced test server run-time by **150%** by increasing efficiency of financial report generation system using Java

PROJECTS

TRAVELLER

Dec 2018 - Current

- React Native rideshare application powered by Google Firebase, uses TypeScript and Redux
- Designed and implemented backend architecture to be completely type-safe, allowing for quicker development

MY WORKSPACE

Nov 2018

- macOS command line tool that automatically sets up a user's multi-desktop workspace
- Opens and positions applications and allows workspaces to be saved, written in **C++** and AppleScript