

# Ahmad Alsabbagh

ahmadalsabbagh.github.io

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## EDUCATION

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- **University of Toronto** Toronto, ON  
*Computer Science; Honours Bachelor of Science* *Sep 2017 – Apr 2023*
  - Specialization: Computer Science, Other: Mathematics, Statistics, Physics, Astronomy
  - Awards: Entrance Scholarship, Dean's List candidate

## EXPERIENCE

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- **Flipp Corporation** Toronto, ON  
*Software Engineer I, Content Layer* *May 2023 - Current*
  - Full Stack Software Engineer specializing in microservices architecture using Ruby on Rails, Kafka, REST API, Kubernetes, AWS, and MySQL.
- **Facebook** San Francisco Bay Area, CA  
*Systems Engineer Intern, Client Platform Engineering* *Jun 2022 - Aug 2022*
  - Developed a pipeline to gather policy installation metrics on the Windows fleet of 40,000 devices by leveraging Hack and Intune. This was an initiative to provide the team and stakeholders with an understanding of Intune policy installation times and the health of the MDM solution.
  - Developed a pipeline leveraging source control to improve the ownership and maintainability of managed scripts, policies, applications, and configurations. This was an effort to improve Intune as it lacks the ability to decipher ownership of scripts, policies, and configurations.
- **Flipp Corporation** Toronto, ON  
*Associate Software Engineer, Content Collection Team* *May 2021 - Apr 2022*
  - Improved content filtering within content collection systems to better target content from specific cities or provinces/states
  - Won the CEO's Choice Award for creating a chrome extension that gathered product data while the user browses different websites
  - Added functionality to label products with google product categories to improve the identification of products for downstream services and improving what the end-user should see
  - Owned and maintained new data collection systems generating content that was leveraged for Flipp Brand Partnership Campaigns (Generating \$1M)
  - Improved memory usage in Ruby microservices reducing costs and potential of Datadog alerts
  - On-boarded new retailers onto data collection systems to generate content for Flipp Ad Campaigns
  - Worked with a wide range of RESTful & GraphQL API endpoints from different retailers to optimize data collection while avoiding bot detection
  - Utilized Apache Kafka, MySQL & Redis to streamline data to downstream services
  - Worked with stakeholders and different teams to improve and upgrade data collection systems
  - Improved new hire on-boarding and reduced daily manual work for developers by writing and updating developer documentation
  - Developed features for different microservices using Ruby on Rails and JS/HTML/CSS
- **SOTI Inc.** Mississauga, ON  
*Software Engineer, Android Team* *Sep 2019 - Jun 2020*
  - Lead an effort to improve the security of the repository by migrating off of an old library
  - Developed features in Java via test-driven development for different versions of Android
  - Refactored legacy code base to improve maintainability and the health of repositories
  - Debugged and fixed bugs that required complex workarounds improving the UI

- **University of Toronto**

Toronto, ON

*Teaching Assistant*

*Jan 2021 - Apr 2021*

- **CSC209:** Software Tools and Systems Programming
- Software techniques in a Unix-style environment, using scripting languages and the machine-oriented programming language, C. Core topics: creating and using software tools, pipes and filters, file processing, shell programming, processes, system calls, signals, basic network programming.
- Held weekly lectures to explain key concepts and answer student questions
- Assisted professors in facilitating their lectures by monitoring/responding to the chat

## PROJECTS

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- **Full-Stack Predictive Modelling Dashboard Website:** A business-based predictive modelling dashboard service that uses business data to make predictive assessments on sales and trends. Created a full-stack website for clients/businesses to view their dashboards and to export reports. Web App was built using Ruby on Rails, AWS QuickSight, React, HTML and CSS. Hosted using AWS and Docker.
- **COVID-19 Statistics & News Mobile Application:** A COVID-19 statistics & news app that collects local government data and news in Ontario and displays it in one convenient app. Built using Flutter, NewsApi and Google Sheets API.

## SKILLS

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- **Languages:** Java, Kotlin, Python, Go, Ruby, JavaScript, TypeScript, C, C++, C#, Hack, PHP, Dart, HTML, CSS, SQL
- **Technologies:** Git & Github, Docker, Kubernetes, Amazon Web Services (AWS), CircleCI, Chef, Intune, Github Actions, Jenkins, MySQL, MongoDB, PostgreSQL, NoSQL
- **Frameworks:** React, Express, Next, Angular, Node, Flutter, Ruby on Rails, Flask, Django, RXJava, libvirt