Ahmad Alsabbagh

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EDUCATION

- **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

- **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.
  - Led and designed a user interface project to improve data management and maintainability in the content ingestion layer. Expertly divided the project into manageable chunks and orchestrated a dynamic team to execute tasks efficiently.
  - Pioneered the creation of a scalable EKS API service, enabling real-time push updates for retailers to effortlessly manage their content on Flipp's platform.
  - Conducted a thorough analysis and devised a strategic plan to enhance our existing Kafka infrastructure, resulting in a remarkable 50-fold improvement in Kafka publishing efficiency.

- **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*
  - Enhanced content filtering mechanisms within content collection systems to more easily target content from specific cities and provinces/states, enhancing data relevance.
  - Earned the esteemed CEO's Choice Award for developing a Chrome extension that effortlessly collected product data while users explored various websites, showcasing exceptional innovation.
  - Enhanced product labeling capabilities with Google Product Categories, resulting in more accurate product identification for downstream services and an enriched end-user experience.
  - Took charge of and sustained newly implemented data collection systems, successfully generating content pivotal for Flipp Brand Partnership Campaigns, resulting in a substantial revenue of $1 million.
  - Implemented memory optimization changes within Ruby microservices, resulting in cost reductions and fewer Datadog alerts, improving operational efficiency.
  - Facilitated the seamless onboarding of new retailers onto data collection systems, contributing to content generation for Flipp Ad Campaigns, further expanding the platform's reach and impact.
  - Expertly navigated a diverse array of RESTful and GraphQL API endpoints across different retailers, optimizing data collection processes while evading bot detection, ensuring data integrity and reliability.
  - Leveraged Apache Kafka, MySQL, and Redis to streamline data flow to downstream services, facilitating smoother data processing and enhancing system performance.

- ○ Collaborated closely with stakeholders and cross-functional teams to continuously enhance and upgrade data collection systems.
  - ○ Revamped new hire onboarding processes and reduced daily manual developer tasks by crafting and maintaining comprehensive developer documentation, fostering productivity and efficiency.
  - ○ Contributed to the development of feature-rich microservices using Ruby on Rails, JS, HTML, and CSS, showcasing proficiency in microservices architecture and frameworks.
- **SOTI Inc.** Mississauga, ON
  Software Engineer, Android Team *Sep 2019 - Jun 2020*
  - ○ Led an effort to improve the security of our services by migrating off of old dependencies
  - ○ Developed features in Java via test-driven development for different versions of Android
  - ○ Refactored legacy code base to improve maintainability and code smells within client-facing application
- **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

Skills

- **Languages**: Ruby on Rails, Python, Java, JavaScript, TypeScript, C, C++, C#, Hack, PHP, Dart, Go, 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