Ahmad Alsabbagh
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EDUCATION

University of Toronto — Toronto, ON
Honours Bachelor of Science — *Sep 2017 – Apr 2023*

- Specialization (Double Major): Computer Science
- Awards: Entrance Scholarship, Dean's List candidate

EXPERIENCE

Flipp Corporation — Toronto, ON
Software Engineer I, Content Layer — *May 2023 - Current*

- Led the design and implementation of a user interface project aimed at enhancing data management and maintainability within the content ingestion layer. Created a user-friendly interface empowering engineers to monitor and manage content flow, strategically preparing for a significant 100-fold increase in data volume. Effectively segmented the project into manageable phases, optimizing efficiency in execution.
- Initiated and developed a scalable EKS API service facilitating real-time push updates, empowering retailers to seamlessly manage content on Flipp's platform. Resulted in a substantial 250% surge in user engagement through personalized local deals.
- 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*

- Engineered a robust Hack and Intune pipeline, effectively monitoring policy installation metrics across a 40,000-device Windows fleet.
- Delivered pivotal insights leading to the resolution of a Sev1 issue, empowering informed decision-making for teams and stakeholders.
- Pioneered a pipeline integrated with source control, optimizing the management of scripts, policies, applications, and configurations.
- Established ownership tracking within Intune, addressing critical gaps and enhancing efficiency.

Flipp Corporation — Toronto, ON
Associate Software Engineer, Content Collection Team — *May 2021 - Apr 2022*

- Engineered and integrated location-based filtering mechanisms within content collection systems to curate retailer-specific product and pricing data. Strategically utilized this enhancement to power targeted advertising campaigns in locations like Austin, Texas, ensuring precise localization of offers. Resulted in heightened user engagement and improved retention rates through tailored and contextually relevant advertisements.
- Received the prestigious CEO's Choice Award during a company-wide hackathon for the innovative Chrome extension designed to streamline online product comparisons and empower users with cost-saving insights.
- Elevated product labeling precision with Google Product Categories, amplifying product search accuracy and enhancing user experiences.
- Orchestrated and maintained newly integrated data collection systems, instrumental in securing $1 million revenue via Flipp Brand Partnership Campaigns.
- Implemented memory optimization strategies within Ruby microservices, resulting in cost reductions and reduced operational alerts by 33%.
- Streamlined the onboarding process for new retailers onto data collection systems, augmenting Flipp Ad Campaign content and extending platform reach.

- ○ Strategically navigated RESTful and GraphQL API endpoints across diverse retailers, optimizing data collection while ensuring integrity and reliability.
- ○ Leveraged Confluent Kafka, MySQL, and Redis to optimize data flow, amplifying downstream service efficiency and system performance.
- ○ Collaborated cross-functionally to continuously fortify data collection systems, driving improvements aligned with stakeholder objectives.
- ○ Revamped onboarding procedures and decreased daily manual developer tasks by crafting comprehensive documentation, boosting productivity.

- **SOTI Inc.**   Mississauga, ON
  Software Engineer, Android Team   *Sep 2019 - Jun 2020*
  - ○ Spearheaded a migration effort off old dependencies, enhancing service security.
  - ○ Implemented Java-based features via test-driven development for varied Android versions.
  - ○ Conducted substantial refactoring, elevating codebase maintainability within client-facing applications.

- **University of Toronto**   Toronto, ON
  Teaching Assistant, CSC209: Software Tools and Systems Programming   *Jan 2021 - Apr 2021*
  - ○ 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.
  - ○ Facilitated weekly lectures, elucidating core concepts and addressing student inquiries.
  - ○ Assisted professors in conducting lectures by actively engaging with student queries.

SKILLS

- **Languages**: Ruby, Python, Java, JavaScript (Node.js), Go, TypeScript, SQL
- **Technologies**: Confluent Kafka, Git & GitHub, Docker, Kubernetes, Amazon Web Services (AWS), MySQL, PostgreSQL, Redis, Jenkins, CircleCI, GitHub Actions
- **Frameworks**: Ruby on Rails, Flask, Express, Node.js, Django