Ahmad Alsabbagh

ahmadalsabbagh.github.io

EDUCATION

University of Toronto

Toronto, ON

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LinkedIn: LinkedIn.com/in/AhmadAlsabbagh

Honours Bachelor of Science 9/2017 - 4/2023

o Specialization: Computer Science

o Awards: Entrance Scholarship, Dean's List candidate

EXPERIENCE

Coalition, Inc.

Toronto, ON

Software Engineer, Carriers and Accounts

5/2024 - Present

- Co-led the design and development of the Organizations service, a core system for mapping noisy data to unified organizational entities. This improved risk visibility across thousands of insurance submissions and reduced underwriting errors.
- Designed and implemented a scalable, event-driven architecture using AWS Lambda, SQS, and Kafka to automatically process account and control client events. The system now processes over 1M events per week, significantly reducing manual work for operations.
- Developed a suite of high-performance Golang gRPC API endpoints for organization creation, merging, splitting, and relationship management. These APIs enabled the operations team to resolve data inconsistencies, reducing support requests by 40%.
- Built an OpenSearch-based matching engine to intelligently group similar organizations using fuzzy and weighted matching techniques. Implemented a reporting pipeline using AWS Kinesis and Snowflake to stream match outcomes for analytics and algorithm tuning.
- Integrated AI-powered organization merging using a dedicated Lambda reviewer, automating low-confidence match resolution via Coalition's internal AI service and increasing data accuracy with minimal human input.
- Contributed to the company-wide migration to OpenFGA for authorization by designing scalable models for brokers, users, and accounts, unlocking support for hierarchical access control and complex permission structures.

Flipp Corporation Toronto, ON

Software Engineer, Content Layer

5/2023 - 5/2024

- Designed and launched a scalable API service on AWS EKS to deliver real-time push updates, enabling retailers to dynamically manage Flipp platform content based on in-store stock. This provided missing locality-specific data, driving a 250% increase in user engagement, with Walmart as the first onboarded retailer.
- Led and implemented a user interface project to improve monitoring and maintainability of the content ingestion layer. Automated routine engineering tasks, preparing the system for a 100x increase in data volume while enhancing operational efficiency.
- Analyzed and optimized Kafka infrastructure, achieving a 50x improvement in publishing efficiency for key workflows, ensuring scalability and reliability.
- Optimized concurrent job performance in primary job scheduling service by introducing partitioned query jobs, preventing deadlocking conflicts during high-volume database operations. This enhancement significantly improved throughput and scalability for simultaneous job processing.

Meta Platforms, Inc. Software Engineer Intern

San Francisco Bay Area, CA

06/2022 - 08/2022

• Engineered a scalable Hacklang–Intune pipeline to monitor policy installation metrics across Meta's Windows device fleet, enabling proactive system health tracking.

- Resolved a Sev1 issue by delivering key insights, directly supporting high-priority incident response and decision-making.
- Built a source-controlled pipeline for managing scripts, apps, and configurations, streamlining deployment workflows and reducing manual overhead.
- Implemented ownership tracking in Intune, closing operational gaps and improving accountability across device management.

Flipp Corporation

Toronto, ON 5/2021 - 4/2022

Software Engineer Intern

- Received the CEO's Choice Award for a Chrome extension built during a company-wide hackathon, enabling users to compare online products and find savings more effectively.
- Improved product labeling accuracy using Google Product Categories, enhancing product search relevance and end-user experience.
- Maintained and optimized data collection systems that supported \$1M+ in revenue through Flipp Brand Partnership Campaigns.
- \circ Reduced operational alerts by 33% and improved service performance through memory optimizations in Ruby microservices.
- Streamlined onboarding of new retailers and improved internal documentation, reducing manual dev work and accelerating campaign launches.
- Worked across REST/GraphQL APIs and leveraged Kafka, MySQL, and Redis to ensure reliable, scalable data ingestion pipelines.

SKILLS

- Languages: Go (Golang), Ruby, Python, Java, JavaScript (Node.js), TypeScript, SQL, Hack (Hacklang)
- Technologies: AWS (Lambda, SQS, Kinesis), Kafka, Docker, Kubernetes, Git, MySQL, PostgreSQL, Redis
- Frameworks: Ruby on Rails, Flask, Express, Node.js, Django