

Ashish Selvaraj

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EDUCATION

University of Waterloo: Bachelor of Computer Science 09/2020 - 08/2025

Wilfrid Laurier University: Bachelor of Business Administration 09/2020 - 08/2025

Awards: Apple Swift Student Scholar, Faculty of Mathematics Scholarship, President's Scholarship of Distinction

EXPERIENCE

Databricks 01/2025 - 04/2025

Software Engineer Intern | Pipelines Execution Engine Mountain View, California

- Build and released persisted views: the CREATE VIEW syntax for Delta Live Tables, Databricks' declarative ETL pipelines product enabling customers to reuse views across pipelines, set access control and debug their contents.
- Led a major refactor of the primary engine behind Delta Live Tables to integrate views as first-class citizens in the architecture so that they could be tracked and persisted, eliminating several edge cases in their handling.
- Worked across teams to ensure that views could have the same privileges as tables in Unity Catalog.

Microsoft 05/2024 - 08/2024

Software Engineer Intern | Cloud for Sovereignty Redmond, Washington

- Architected and developed a **testing engine** for Microsoft Cloud for Sovereignty to deploy and validate configurations of the Sovereign Landing Zone in parallel, aligning the team with organization wide quality goals.
- Reduced validation pipeline runtime by **61%** after integrating the new testing engine with similar improvements seen across testing loads because of the engine's ability to continuously exploit the allowed level of parallelization.
- Enhanced testing infrastructure across **3+** services due to the extensibility of the testing engine which allowed plug and play with any infrastructure as code automation service with changes only needed to a single pipeline step.

theScore 01/2023 - 04/2023

Software Engineer Intern | Data Ingestion Toronto, Canada

- Developed sports data ingestion and data processing workflows to deliver real-time alerts to **20M+** sports fans.
- Significantly increased uptime and maintainability in a critical system that ingested real-time soccer data (scores, shootouts, etc.) by breaking up a legacy Python monolith into parallelized and loosely-coupled **Elixir** workflows.
- Achieved **100%** availability during migration by proactively monitoring dashboards and ensuring data integrity.

Loblaw Companies 01/2022 - 04/2022

Software Engineer Intern | APIs Brampton, Canada

- Developed and delivered a versatile **Java** Spring Boot API **30 days** in advance that was used in **4+** initiatives.
- Empowered the team to tackle multiple projects concurrently by streamlining requirements into parameterized queries accessible through the REST API that could be called by clients with parameters as desired.
- Accelerated observability projects giving management insight into supply-chain data for **2,400+** grocery stores.

Thomson Reuters 05/2021 - 08/2021

DevOps Intern Toronto, Canada

- Slashed deployment time by **50%** and added the ability to re-run failing stages by replacing a deploy script with a **CI/CD** pipeline written in YAML to build, test and package a large legal application in **Azure** DevOps.
- Reduced incident response times by writing a script to add priorities for **300+** monitors in Datadog.

PROJECTS

Not Evil Sudoku 🧩 | *Swift, SwiftUI, Node.js, DynamoDB, AWS Lambda*

- Designed and developed a clean, minimalist sudoku app with over **150,000+** installs and **700+** 5-star reviews.
- Moderated puzzle difficulty and prioritized features using insights on user behaviour gained through a custom analytics system deployed on **AWS Lambda** that processed and archived anonymized game data.

SKILLS

Languages: Python, C++, C#, JavaScript, Swift, Elixir, Java, SQL

Technologies: AWS Lambda, .NET, Linux, MongoDB, Spark, SwiftUI