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*
- Worked across several team's codebases to develop and release persisted views for Databricks' declarative Extract-Transform-Load (ETL) pipelines product.

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.

Rosetta Glass ✎ | *Mindlink, CockroachDB, Cohere*
- A language learning application that used **eye-tracking** to detect when the user was stuck on a word and providing real-time translations in an overlay to the side, utilizing algorithms to process the word and its context.

SKILLS

Languages: Python, C++, C#, JavaScript, Swift, Elixir, Java, SQL
Technologies: AWS Lambda, .NET, Linux, MongoDB, Spark, SwiftUI