

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 Challenge Winner, Pepsico Elevator Pitch Semi-finalist, Math Entrance Scholarship

EXPERIENCE

Microsoft 04/2024 - 08/2024
Incoming Software Engineering Intern Redmond, Washington

PENN Entertainment 01/2023 - 04/2023
Software Engineering Intern (Data Ingestion) Toronto, Canada

- Worked on sports data ingestion and data processing 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 Engineering Intern (APIs) Brampton, Canada

- Developed and delivered a versatile **Java** Spring Boot API a **month** in advance which was used in **4+** initiatives.
- Empowered the team to tackle multiple projects concurrently by streamlining their requirements into parameterized flexible queries accessible through the REST API which could be called by clients with parameters as desired.
- Accelerated several observability projects designed to give other teams and senior management insight into supply-chain data for **2,400+** grocery stores by allowing clearly scoped access through the API and queries.

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 Powershell script with a **CI/CD** pipeline written in YAML to build, test and package a large legal application in **Azure** DevOps.
- Minimized incident response time by adding priorities to **300+** monitors in Datadog after meeting stakeholders and writing a Python script that updated monitors through the Datadog Monitors API and Synthetic Monitors API.

UW Computer Science Club 09/2022 - 04/2023
Software Developer Waterloo, Canada

- Improved membership purchase experience by alerting users when the office opened with a **Typescript** job.
- Developed features, games and fixes to keep our bot running for the club's **1000+** member Discord community.

PROJECTS

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

- Designed and developed a clean, minimalist Sudoku app with over **100,000+** installs and **600+** 5-star reviews.
- Gained insights on user behaviour and puzzle quality by building a custom analytics system in Node.js that was deployed on **AWS Lambda** which processed and archived data, using DynamoDB for storage.

Rosetta Glass 🧩 | *Mindlink, Cockroach DB, Cohere, GCP, AWS*

- 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 get the word and process context.
- The application shared data to an API hosted on AWS so users could review the words they were stuck on later.

SKILLS

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

Technologies: Node.js, Express.js, Spring, React, SwiftUI, MongoDB, DynamoDB

Platforms/Tools: Amazon Web Services (EC2, Lambda), Azure, Google Cloud, Linux, Jenkins