

Carl Alvares

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Education

University of Toronto

BSc in Computer Science

GPA: 3.48/4.00

Graduated Dec 2021

Toronto, ON

Skills

Languages:

Python, Java, C/C++

SQL, JavaScript

Frameworks/Libraries:

PromiseGraph, Apps Framework

Flume, PZero, Spring

Flask, React

Tools:

Git, Jira, Unix Shell, AWS

Coursework

Data Structures

Algorithms

Computability and Complexity

Software Engineering

Engineering Large Software Systems

Functional Programming

Parallel Programming

Databases

Computer Networks

Computer and Network Security

Awards

James Mason CS Medal

RBC Scholarship for Children

Links

GitHub: [carlalvares](#)

LinkedIn: [carlalvares](#)

Experience

Google

Software Engineer

Jun 2022 – Present

Mountain View, CA

Play Store Subscription Platform Team

- Designed a framework for monitoring and reporting inconsistencies in the **billions of subscription records** held by the **Google Play** store.
- Implemented aforementioned framework using **Java** and **Flume** (an internal library for building data-parallel pipelines).
- Used **GoogleSQL** and **Plx Workflows** (an internal script scheduling tool) to build a pipeline that identifies and resolves subscriptions in an inconsistent state between Google Play and Google Payments, resulting in over **430k subscriptions** fixed.
- Refactored a key billing API in the **Google Play microservices** using **Java, Apps Framework** (an internal server framework) and **PromiseGraph** (an internal library based on **Reactive Streams**), allowing the API to support third-party billing services as part of the **User Choice Billing** pilot.

Amazon

Software Development Engineer Intern

May 2021 – Aug 2021

Vancouver, BC

Buying Experience Architecture Team

- Designed a framework for collecting and rendering debugging information in any Amazon retail page powered by the next-generation **Server Experience Assembler (SXA)** architecture.
- Implemented my framework in the **SXA microservices** using **Java** and **PZero** (an internal library based on **Reactive Streams**).
- Used **Java** and my framework to collect and render layout blueprint information for Amazon retail pages, which is a feature that will be used by **over 200 other engineering teams** at Amazon.

CaseWare

Software Developer Intern

Sep 2018 – Aug 2019

Toronto, ON

AnalyticsAI Team

- Used **Java** and **Spring** to implement APIs in the **AnalyticsAI** product to retrieve and process financial data from a **PostgreSQL** database in order to conduct auditing tests and flag suspicious entries.

Projects

Fanlinc

2019

- Created a social network for cosplayers and fans using a **Java** and **Spring** back-end with a **Neo4j** graph database.