

# Brendan Saw

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## Education

### Simon Fraser University

Burnaby, BC

BACHELOR OF SCIENCE IN COMPUTING SCIENCE (GPA 4.03 / 4.33)

September 2019 - April 2023

- Graduated **First Class with Distinction**
- **Awards:** SFU Undergraduate Scholars Entrance Scholarship (with Distinction), President's & Dean's Honour Roll
- **Relevant Coursework:** Distributed Systems, Operating Systems, Databases, Web Development, Data Science

## Skills

<b>Languages</b>	Python, Java, TypeScript, C/C++, SQL (PostgreSQL, MySQL), PHP, .NET (C#), HTML/CSS
<b>Frameworks &amp; Libraries</b>	Django, Flask, Pandas, NumPy, React, jQuery, Angular, Node.js, JavaFX, ASP.NET
<b>Tools</b>	AWS, Git, IntelliJ, Maven, Gradle, PyCharm, Docker, Jira & Confluence, Azure, VS Code, MATLAB
<b>Testing Libraries</b>	JUnit, Mockito, PyUnit

## Work Experience

### Amazon Web Services

Vancouver, BC

SOFTWARE DEVELOPMENT ENGINEER

July 2023 - Present

- Returned as a full time Software Development Engineer for **Amazon S3**

### Amazon Web Services

Vancouver, BC

SOFTWARE DEVELOPMENT ENGINEER INTERN

May 2022 - August 2022

- Interned at **Amazon Web Services** within the **S3 (Simple Storage Service)** organization
- Designed and deployed a serverless (**Lambda (Java/TypeScript), Step Functions, EventBridge**) alternative to an internal monitoring application, in turn **reducing team operational burden**
- Deployed the application using **AWS Cloud Development Kit** to create **AWS CloudFormation** stacks, migrating all workflows to the new architecture
- Created **dashboards and alarms** using **Amazon CloudWatch** metrics emitted from the system workflows
- Wrote **unit tests** for the serverless application, achieving **~80% line coverage** within the new serverless application

### Greenlight Innovation

Burnaby, BC

WEB DEVELOPER CO-OP

May 2021 - December 2021

- Developed a web application written in **Python Django, JavaScript, and PostgreSQL** that allowed managers to view project KPIs
- Wrote tests using **PyUnit** to test features within the web application that provided time tracking and ERP functionality
- Streamlined development by introducing tools such as **Git, Jira, and Confluence** to the web development team
- Assisted in deploying written code to production and reviewing PRs before merging

## Projects

### GreenMaps

C#, ASP.NET Core, Xamarin, Azure, Azure SQL

ENVIRONMENT-ORIENTED COMMUNITY MAP

October 2021

- Developed a **CRUD API using C# and ASP.NET Core** to serve data to a **mobile Xamarin application**
- Set up **continuous deployment to Azure from GitHub** and connected API to **Azure SQL database**

### Escape From Corona

Java, JUnit, JavaFX

MAZE GAME

February 2021 - April 2021

- Developed a **Java** maze game utilizing design patterns to learn software best practices
- Tested the game using **JUnit**, achieving **~80% line coverage** through unit and integration tests
- Used **JavaFX** as the GUI and application platform for the game, and gained experience documenting code using **Javadocs**

### HackChan

React, Node.js, PostgreSQL, Docker

ANONYMOUS MESSAGING BOARD

February 2021 - April 2021

- Created a **containerized** messaging board application with **React, Node.js, and PostgreSQL** that allowed users to anonymously create message threads and post replies