

# Amy Tan

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## WORK EXPERIENCE

*June 2022 - Ongoing*

Backend Developer | Avanade Canada

200 Wellington St W, Toronto, ON

- .Net Developer, Health Insurance Portal
  - o Worked with **Microsoft .NET framework, ASP.NET, C#** and **Angular.js** to develop a dynamic insurance web portal.
  - o Created CRUD methods in C# Controllers, managed and tested the methods using **Microsoft SQL Server** and Visual Studio
- Java Spring Boot Backend Developer, Manufacturing ISO
  - o Designed a Microservice Solution for Dispatch, Sales and Inventory Services utilizing Microsoft Azure products to host the service. (The MySQL database was hosted on Azure MySQL)
  - o Created **Spring Boot Java** project and generated CRUD connections using Spring JPA. Created endpoints from the Java controllers.
  - o Created a **CI/CD pipeline** to deploy the java app as a webapp.
- Azure OpenAI Architecture Analyst
  - o Researched tech stack and implementation ideas to create a VS Code Plugin utilizing Chat-gpt 3.5 to generate git commit messages based on the git diff data.
- Salesforce Apex Developer
  - o Worked on developing the Apex data layers to save and retrieve data from the salesforce database.
  - o Worked alongside the project client and business to make **data design and architectural recommendation** for the application implementation.

## LANGUAGES/ SOFTWARE

Python (Pandas), R, Java (Spring Boot, JPA Hibernate), JavaScript (React.js, Node.js), C# (.Net), SQL (Microsoft SQL Server, MySQL), JIRA, Azure Portal, Git, Microsoft Azure Development (certified), Visual Studio, Visual Studio Code, IntelliJ

## CERTIFICATIONS

Microsoft Certified: Azure Developer Associate

*Microsoft (March 2023)*

Disciplined Agile Scrum Master (DASM)

*Project Management Institute (Feb 2023)*

## PROJECTS

### Random Music Generator (2022):

This project uses hash tables to store music theory and other relevant data, classes to create music objects for use in the creation of intervals and notes, and dynamic programming to generate new beats. This project was first written in Python and then modified into JavaScript. The Python version can be found on my GitHub. (There are major changes in functionality between the two.)

*Languages used: JavaScript, HTML, CSS, Python*

### Modeling Rider Counts (2022):

This project looks at daily bike ride data and applies the principal components machine learning method to identify clusters. Clusters identified include riders with no transportation (who are more likely to use a bike during colder temperatures), seasonal riders (those that use bikes during the school year but not the summer) and working riders (those who use the bikes to get to work or school and do not need the bike during the holidays).

*Language used: R*

## EDUCATION

Bachelor of Art, Honours Economics Econometric Specialization

*Computing Minor, Cognitive Science Minor*

*University of Waterloo 2022*