

# Alexander Yee

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## Skills

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**Languages:** Python, C#, C, C++, Java, HTML5, CSS, JavaScript

**Frameworks and Databases:** AngularJS, ASP.NET, ASP.NET Core, Bootstrap, MySQL

**Tools:** Git, Azure DevOps, AWS (EC2, Elastic Beanstalk, Lambda, API Gateway), Postman, Terraform

## Professional Experience

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**Portable Intelligence Inc**, Markham, ON

Jan 2021 - April 2021, Sept 2021 - Dec 2021

*Software Developer*

- Implemented a subscription-based licensing model for **ASP.NET** applications by creating a **.NET** Windows service in **C#** to periodically request for customer licensing information and send an AES encrypted version to a **MYSQL** database
- Developed **LINQ-to-Entities** queries to compile **MySQL** tables with millions of entries into graphs using **JavaScript**
- Created a feature to dynamically build forms in **AngularJS** for crystal reports, removing future development work
- Enhanced a modular **AngularJS** table service to allow users to export table data for over **20** tables as a CSV file
- Improved pre-existing large **LINQ-to-Entities** queries with projections to reduce up to **20%** of the execution time

**Xe**, Newmarket, ON

May 2020 – August 2020

*Full-Stack Developer*

- Expanded an **ASP.NET Core MVC** application to demo XE's **REST API** to over **30** businesses using **C#**, **HTML**, and **CSS**
- Produced multiple unit test cases for XE's REST API using **Postman**, catching over **20** bugs
- Established a **Gitlab CI/CD** pipeline that utilizes **Terraform** to automatically deploy an **ASP.NET Core** REST API to **AWS Lambda** with **API Gateway**, decreasing deployment time by **80%**

## Projects

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**Blog** 🔗

Dec 2021 – Jan 2022

- Launched a scalable blog website using **Python**, **Django**, **PostgreSQL**, **AWS Elastic Beanstalk**, and **EC2**
- Implemented **CRUD** operations that allow users to view, bookmark, share and comment on articles

**Task Manager** 🔗

Nov 2021

- Founded a responsive task management website using **Python**, **Flask**, **Bootstrap**, **PostgreSQL**, and **Heroku**
- Integrated **Flask** form creation, user authentication, and **SQLAlchemy** to map users to their created tasks

**Spotify Playlist Creator** 🔗

Oct 2021

- Constructed a **Python** program that interacts with Spotify's API to create a Spotify playlist by using **Beautiful Soup** to scrape Billboard's top 100 songs based on a specified date

**Typing Speed GUI** 🔗

Oct 2021

- Built a **Python** GUI using **TKinter** to calculate a users' words per minute using random words generated from an API

## Education

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**University of Waterloo**

Waterloo, ON

*Candidate for Bachelor of Software Engineering (B.SE)*

Sept 2019 – Apr 2024

- Cumulative Average: 87.1%
- Related Coursework: Data Structures, Database Management, Programing Principles, Compilers, Statistics for S.E.