

Leo (Yuanzhe) Zeng

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leoyzeng.github.io

EDUCATION

University of Waterloo

Candidate for BAsC Computer Engineering 2026

September 2021 – Present

Cumulative GPA: 3.9/4.0

TECHNICAL SKILLS

Languages	C#, C++, C, Java, JavaScript, Python, PHP, HTML/CSS, Kotlin
Library/Frameworks	Unity, React, jQuery, Bootstrap, Selenium, PyGame, Rest API, Postman
Technologies	MySQL, Linux, Windows, Android, GitHub, Jira, UML

EXPERIENCE

Dematic – Software Engineer

May – August 2023

C#, Unity, .NET, REST API, Postman

- Developed the Dematic Virtual Facility, an efficient simulation and emulation platform capable of running over 10,000 robotics components in real-time, enabling comprehensive testing and optimization of a wide range of warehouse robotics and automation systems.
- Designed and implemented a robust communication interface (DCI Edge) based on documentation, which involved creating more than 30 message classes and transitioning from a fixed-length message serialization to a flexible JSON-based message serialization system, enhancing communication efficiency and flexibility.

Plan Group – Software Engineer

September – December 2022

C#, .NET, Visual Basic, CAD, Excel API, Autodesk API

- Project ALICE – Automation in a Logical, Innovative, Comprehensive, Evolving way.
- Increased efficiency for designers in large scale construction by developing 5 software tools to automate and quality check CAD design, used by 125 colleagues daily.
- Created a tool to automatically quality check and revise 20,000+ wire segments in a CAD model, resulting in a process that is 300 times faster compared to manual quality check.

Collaborative Approach – Full Stack Software Developer

January – April 2022

JavaScript, HTML/CSS, jQuery, PHP, MySQL, WordPress

- Improved appearance and user experience of front-end interface for file management system used daily by 20 clinic staff, by replacing PHP-based functionality with interactive AJAX functionality.
- Provided clinic managers with a centralized, secure, and private document repository for employee communications in clinics in 5 cities, by implementing a SQL-based document storage and an HTML/JS/AJAX interface for creating and managing documents.

PROJECTS

Sorting Algorithm Visualizer – Android Application

2022

Kotlin, Android, Android Studio

leoyzeng.github.io/projects

Chef Boy – 3D action-adventure game where the player explores an alien world

2020

Java, JMonkey Graphics Engine, UML, Blender

leoyzeng.github.io/projects/chef-boy