

# Leo (Yuanzhe) Zeng

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[github.com/leoyzeng](https://github.com/leoyzeng)  
[leoyzeng.github.io](https://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](https://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](https://leoyzeng.github.io/projects/chef-boy)