

# TIM HE

SYSTEMS DESIGN ENGINEERING



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github.com/timyhe

## LANGUAGES

Java, C++, Python, C#,  
HTML/CSS, JavaScript

## TOOLS

React, Git, Bash, Android,  
Visual Studio, Heroku,  
Inkscape, Figma, Solidworks

## EDUCATION

University of Waterloo  
Candidate for B.ASc. in  
Systems Design Engineering  
(Sep 2018 - Present)

### Relevant Courses:

Digital Computation in C++,  
Introduction to Design

## INTERESTS

Jazz trombone, competitive  
trivia, Android theming,  
public transit

## PROJECTS

### literatura

- Built a mobile app using Android Studio to promote the discovery and facilitate the study of canonical works of literature
- Designed robust GUI using XML to access each work of literature and its associated quiz, obtained from a JSON file hosted on GitHub
- Implemented book searching services to fetch book covers and information using OpenLibrary API

### stoic bot

- Developed a Discord chatbot in Python that dispenses Stoic wisdom through philosophical quotes, among other features
- Integrated Dark Sky API to fetch realtime weather data and provide users with appropriate clothing advice
- Utilized Heroku to deploy bot, allowing for constant usage on Discord server

### Final Fantanosy VI

- Designed GUI of menu and tutorial screens of an album 'collect-a-thon' game using JavaFX
- Created 8-bit sprite sheets for different game characters using Inkscape

## EXPERIENCE

### Elections Ontario | Information Assistant

Jun 2018

- Communicated with election officers to set-up and troubleshoot new voting technology at polling station
- Directed traffic flow of voters at polling station and accommodated questions on voting process

### Idlewyld Manor | Dietary Aide

Jan 2017 - Aug 2018

- Coordinated with dietary staff to provide residents with meals specific to their nutritional plan
- Maintained clean and healthy working environment for both residents and employees

### Westmount Quiz Club | President

Sep 2016 - Jun 2018

- Organized and hosted tournaments in conjunction with McMaster's Quizbowl Club to raise funds and develop local Reach for the Top scene
- Lead team of six students to two consecutive top five finishes at provincial tournament