

TIM HE

SYSTEMS DESIGN ENGINEERING



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LANGUAGES

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

TOOLS

React, Git, Heroku, Linux,
Android Studio, Visual
Studio, Inkscape

EDUCATION

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

Relevant Courses:

Digital Computation,
Introduction to Design

INTERESTS

Jazz trombone, competitive
trivia, Android theming,
public transit

PROJECTS

literatura - Java

- 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 - Python

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

Final Fantanosy VI - Java

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

EXPERIENCE

Information Assistant | Elections Ontario

Jun 2018 | Ancaster, ON

- 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

Dietary Aide | Idlewyld Manor

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

President & Team Captain | Westmount Quiz Club

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