TIM HE

SYSTEMS DESIGN ENGINEERING

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LANGUAGES

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

TOOLS

React, Git, Bash, Heroku, Linux, Android Studio, Visual Studio, Inkscape, 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 bot 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 in-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