TIM HE

SYSTEMS DESIGN ENGINEERING

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LANGUAGES

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

TOOLS

Git/Bash, Android
Studio, Heroku,
Inkscape, Figma, InVision

EDUCATION

University of Waterloo
Candidate for B.ASc. in
Systems Design Engineering
(Sep 2018 - Apr 2023)

Relevant Coursework:

Digital Computation in C++,
Introduction to Design

INTERESTS

Jazz trombone, competitive
trivia, Android theming,
public transit

PROJECTS

literatura

- Built a mobile app using Java in Android Studio to promote the discovery and facilitate the study of classical works of literature
- Applied interaction design principles to develop high-fidelity 5 screen prototype using Figma and Invision
- Implemented Open Library API to access information on books in conjunction with custom API to access quiz questions and answers

stoic bot

- Developed a Discord chatbot using Python that dispenses stoic wisdom through philosophical quotes, deployed using Heroku
- Integrated Dark Sky API to fetch real-time weather data and provide users with appropriate clothing advice

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

Hamilton Chinese Alliance Church | Camp Director

May 2018 - Aug 2018

- Organized and communicated with team of 30+ volunteers to host week-long summer camp for 70+ attendees
- Developed event brand identity by designing logo used on T-shirts and other merchandise

Elections Ontario | Information Assistant

Jun 2018

- Communicated with election officers to set-up and troubleshoot new voting technology at polling station

Westmount Quiz Club | President

Sep 2016 - Jun 2018

- Directed 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 through facilitating practices and study

Idlewyld Manor | Dietary Aide

Jan 2017 - Aug 2018

- Coordinated with dietary staff to provide residents with meals specific to their nutritional plan