

ALEX YIZHE XIE

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/in/alexieyizhe in

proficiencies

HTML Python
CSS Java
LaTeX Scheme
Git JS
C

skills

Mandarin
native
French
DEL F B1 level
Photoshop

recognition

DEL F B1
certification
Dean's
Honour List
award
Hypatia
Contest Top 5
award
McLamore
Foundation
Scholar
award

interests

soccer
travel
graphic design
volunteering
games
puns

projects

WATBus(shouldItake?)

Jan 2018

- FB Messenger bot allowing users to obtain live transit info in-app
- Built using **Python** with a **Flask** webhook and deployed through **Heroku**
- Implemented **Wit.ai** natural language processing of user input
- Parsed **GTFS Protocol Buffer** transit data from **GRT API** for realtime updates

alexieyizhe.me

Nov 2017

- Personal website/portfolio created from scratch using **HTML/CSS**
- Utilized **Javascript** & **@keyframe CSS** animations for dynamic site elements

Kanye Quest

June 2017

- Implemented collision detection & pathfinding systems with methods from **Java Collections Framework** and strong mathematics skills
- Incorporated all gameplay, GUI, & HUD elements as **Java** classes
- Designed and created numerous custom assets for game in **Photoshop**

PokePaint

Jan 2017

- Developed undo/redo, text, recursion fill, and all other tools in **Python**
- Toolbars and paint canvas contents rendered by **Pygame** library
- Utilized **Tk GUI Toolkit** for GUI, file I/O, and saving/loading paintings

Visit github.com/alexieyizhe for more projects and contributions.

education

University of Waterloo

expected grad. May 2022

Bachelors of Computer Science (Honours)

96% Major Average. 88% Cumulative Average. 3.9 GPA.

Recipient of: President's Scholarship, Faculty of Math Merit Scholarship

work

Equithon

Oct 2017 - Present

Operations Coordinator

- Managing all logistics of Waterloo's largest social innovation hackathon
- Responsible for scaling up event to accomodate 500% increase in hackers

Parc Régional de la Rivière du Nord

June - Sept 2016

Full Time Park Patrol

- Interacted with guests in a fully francophone environment
- Dealt with problems and situations arising in the regional park

experience

Mathematics Society

Jan 2018 - Present

Computer Science Representative

- Voting member of the Faculty of Math's student council
- Elected by computer science students to represent their needs and opinions

ANS/UCCP Charity Events

Nov 2014 - Dec 2016

Entertainment/Security Executive

- Organized all major activities, resulting in highest turnout ever recorded
- Supervised 200+ security volunteers and ensured the safety of 350+ youth

YMCA Summer Work Student Exchange

June - Sept 2016

Participant

- 1 of 8 in Windsor Essex County selected to embark on summer exchange
- Learned to adapt and react to unfamiliar situations and environments