

ALEX ZHANG

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Education

University of Waterloo

Bachelor of Mathematics

Sep. 2023 – May 2028

Waterloo, Ontario

Technical Skills

Languages: Python, C/C++, HTML/CSS, JavaScript, SQL, R, Linux

Developer Tools: VS Code, PyCharm, Node.js, Linux shell

Technologies/Frameworks: Linux, GitHub, React.js, Node.js

Projects

My Personal Website | *html/css, React.js*

January 2024

- Designed, developed, and operated a fully responsive informational website using ReactJS
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- Created a Linux virtual machine to run on Google Cloud so that the program is able to run everyday from the cloud.
- Used Cron to schedule the program to execute automatically at 11 AM every morning so a reservation is made for me.

Ticket Price Calculator App | *Java, Android Studio*

November 2020

- Created an Android application using Java and Android Studio to calculate ticket prices for trips to museums in NYC.
- Processed user inputted information in the back-end of the app to return a subtotal price based on the tickets selected.
- Utilized the layout editor to create a UI for the application in order to allow different scenes to interact with each other.

Transaction Management GUI | *Java, Eclipse, JavaFX*

October 2020

- Designed a sample banking transaction system using Java to simulate the common functions of using a bank account.
- Used JavaFX to create a GUI that supports actions such as creating an account, deposit, withdraw, list all accounts, etc.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

Experience

New Bridge Academy

May 2023 – present

Instructor/Tutor

Surrey, BC/remote

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- Covering topic including AP computer science
- Utilized Jenkins to provide a continuous integration service in order to automate the entire process of loading the latest build code and test files, running the tests, and generating a report of the results once per day.
- Explored ways to visualize and send a daily report of test results to team members using HTML, Javascript, and CSS.

Semiahmoo Programming Club

Sep 2022 – June 2023

Programming instructor/Executive

Surrey, BC

- Taught beginner and intermediate level programming classes with language such as Java, Python and C++.
- Covering topics in AP computer science emphasizes object-oriented programming methodology with an emphasis on problem solving and algorithm development.
- Hold weekly lectures with other executive with over 80 students.

Other

Languages

Spring 2020 – Present

President

University Name

- Achieved a 4 star fraternity ranking by the Office of Fraternity and Sorority Affairs (highest possible ranking).
- Managed executive board of 5 members and ran weekly meetings to oversee progress in essential parts of the chapter.
- Led chapter of 30+ members to work towards goals that improve and promote community service, academics, and unity.