

Jackie Zhou

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Experience

COMPUTER SCIENCE & PHYSICS TUTOR

Sept 2019 - June 2020

- Taught 6 students programming fundamentals including big O and object oriented programming
- Redesigned course content to more effectively teach students - resulting in a 20% grade increase on regular tests

BARISTA/CASHIER, ONEZO TAPIOCA

March 2019 - March 2020

- Improved guest experience by greeting customers and answering inquiries
- Saved time and increased profits by providing quick, accurate service in a dynamic work environment

Projects

GIT VOICE

- Developed a prototype VSCode extension that connects the google voice assistant to VSCode through the use of Voiceflow API, allowing the user to input voice git commands
- Utilized HTTP requests and TypeScript to integrate the Voiceflow API with VSCode in order to send commands to the machine's localhost

FIREBASE CONNECT

- Developed a single-page web app social media platform that allows users to share information with others
- Utilized React, Redux and Firebase to implement user authentication and store data within a NoSQL database
- Implemented cloud functions through Firebase in order to run async code through Firestore actions

CHATBOT

- Developed a chatbot in java that detects keywords from user input and responds accordingly
- Utilized object oriented programming to implement a front-end user experience with updating reactive graphics
- Implemented MongoDB database in order to store user input and tailor bot responses for specific users

Awards & Achievements

CYBER SECURITY LIVE CASE, TD BANK

December 2020

- Designed a blockchain network to increase TD transaction security, Semi-Finalist out of 250+ teams

CYBER SECURITY CAPTURE THE FLAG, SYSKRON SECURITY

October 2020

- Using reverse engineering tools, solved various programming vulnerabilities, Top 100 finisher out of 1000+ teams

Skills

LANGUAGES

Java, Python, C, Scheme, HTML, CSS, JavaScript, TypeScript

FRAMEWORKS & TOOLS

React, Redux, MongoDB, Voiceflow, Node JS, Firebase, Ghidra, Git, NoSQL

Education

UNIVERSITY OF WATERLOO

Expected May 2025

- Honors Bachelors of Mathematics | Intended Focus in Computer Science
- President's Scholarship (90% average or higher)