

# Jackie Zhou

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## Skills

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**LANGUAGES** Java, Python, C, Scheme, HTML, CSS, JavaScript, TypeScript, SQL

**FRAMEWORKS & TOOLS** React, Redux, MongoDB, REST API, Node, Express, Firebase, Git, MySQL, Neo4j

## Projects

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### **GIT VOICE** *TypeScript, Express.js, Git, Voiceflow, Ngrok*

- 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 Voiceflow's RESTful API with VSCode in order to send commands to the machine's localhost

### **FIREBASE CONNECT** *JavaScript, React, Redux, Firebase, Git*

- 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

### **AI Natural Language Processing Chatbot** *Java, Neo4j*

- Developed a standalone java application to process phrases in a relational model with Neo4j
- Utilized Stanford Java libraries for tagging POS and sentence segments and created a model to process the relationships between words
- Designed a desktop UI with Java frames to allow user interaction with the AI

## Experience

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### **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 12% by providing quick, accurate service in a dynamic work environment

## Awards & Achievements

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### **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

## Education

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### **UNIVERSITY OF WATERLOO**

*Expected May 2025*

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