

# Alexander Ma

## Contact Information

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**GitHub:** <https://github.com/TheZombieCloud>

**LinkedIn:** <https://www.linkedin.com/in/alexyma/>

**Website:** alexma.me

**Tools & Languages:** React, Flask, HTML/CSS, Python, Java, C++, C, C#, Firebase, SQLite, Git

<b>Projects</b>	<b>Slate</b>	React, Flask, HTML, CSS, Firebase	Sep. 2019 - Jan. 2020
	<ul style="list-style-type: none"><li>■ Created a social media web app with the ability to create schedules and see your friends' availability for the current day</li><li>■ Integrated server endpoints to send <b>HTTP</b> requests in order to retrieve and update schedule, account, and feed information</li><li>■ Implemented <b>React</b> frontend to display a schedule and feed from database information</li><li>■ Implemented <b>Flask</b> backend to resolve <b>HTTP</b> requests and push updates to the <b>Firebase Realtime database</b></li></ul>		
	<b>Smart Pharmacy</b>	Java, JavaScript, Firebase	Sep. 2019 - Dec. 2019
	<ul style="list-style-type: none"><li>■ Developed the backend of a smart vending machine that recognizes users based on a facial profile created by their doctor and dispenses the corresponding medication</li><li>■ Integrated endpoints to send <b>HTTP</b> requests in order to update prescription, user, and transactional data</li><li>■ Constructed <b>Firebase Cloud Functions</b> using <b>JavaScript</b> to send and receive data from the vending machine and doctor's app, updating the <b>Firebase Realtime database</b> based on the transaction</li><li>■ Implemented functions in <b>Java</b> that the doctor's client calls to send data to the <b>Firebase Cloud Functions</b></li></ul>		
	<b>Economy</b>	Python, Discord API, SQLite 3	July 2019 - Sep. 2019
	<ul style="list-style-type: none"><li>■ Created a bot that implements income, theft, and games into Discord</li><li>■ Integrated responses to specific commands using the <b>Discord.py</b> API and <b>Python</b></li><li>■ Implemented functions that perform <b>CRUD</b> operations to a local database in <b>SQLite 3</b></li></ul>		
<b>Activities</b>	<b>HackIR</b>		Aug. 2018 - Dec. 2018
	<ul style="list-style-type: none"><li>■ Organized and led an MLH Local Hack Day hackathon with 6 other people</li><li>■ Managed the technical side of the hackathon, including solving technical difficulties and judging final projects</li><li>■ Garnered over <b>130</b> participants through the use of HackerEarth and other similar sites</li></ul>		
<b>Education</b>	Candidate for Software Engineering (co-op), University of Waterloo, Expected 2024		