

# Matt Zhang

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## Skills

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**Languages:** JavaScript, Python, C, C++, HTML, CSS, Java, SQL  
**Frameworks:** React, Node.js, Express, Flask, Bootstrap  
**Technologies:** MongoDB(NoSQL), PostgreSQL, Azure, Heroku, Netlify, Git/Github, UNIX

## Projects

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### DoxMy.Tech 🌐 🌐

React, Flask, Bootstrap, PostgreSQL, Azure, Python

- Built **full-stack** web app using **React** and **Flask** with **PostgreSQL** database for social media analytics
- Created **RESTful API** to aggregate social media data for sentiment analysis and entity recognition
- Deployed modular **Flask** server and data pipelines to clean and standardize data for **Postgres** database
- Visualized processed **SQL** data and **Azure Text Analytics** on responsive **React/Bootstrap** website

### GrammarHammer 🌐

Python, Javascript, Azure, Heroku

- Created a device to give users physical feedback based on a **ML analysis** of their spoken grammar
- Used **Microsoft Azure's** speech-to-text to transcribe each spoken sentence into processable text
- Created and trained a **NLP model** to check for grammatical correctness with **80%** accuracy
- Used **Git/Gitlab** to collaborate with group and for **continuous deployment**

### 97.0FM 🌐

Python, Discord.py, Beautiful Soup, Heroku

- Created a music recommendation bot for the Discord instant messaging platform
- Integrates **Youtube Music API** to generate a playlist of relevant music from a single provided song
- Connects to voice calls and streams audio with **FFmpeg**

### Clean Timer 🌐

Java, Android

- Built a **Java-based Android** companion app for competitive Rubik's cube solving time statistics
- Records and stores puzzle-solving scores and user settings with SharedPreferences API
- Published on **Google Play** 🌐

## Experience

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**Computer Science Club Executive** – *Lakefield College School*

September 2018 - June 2020

- Organized school-wide Hackathon with **250+** participants emphasizing **Agile** methodologies
- Led weekly meetings for 20 students and taught competitive programming in **Python**

**Camp Counsellor** – *Lakefield College School*

July 2019 - August 2020

- Developed communication skills by working with a team to facilitate academic growth for 25 students

## Education

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**University of Waterloo**

Candidate for Bachelor of Software Engineering (BSE) – GPA: **4.0**

Waterloo, ON

2020 - 2025