

MattZhang

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SKILLS

Languages: Python, Javascript, C, C++, HTML, CSS, Java
Technologies: Git/Github, Bootstrap, Microsoft Azure, PaaS(Heroku, Netlify)

PROJECTS

WSMAC

Python, Javascript, Microsoft Azure

NLP and grammar analysis with a machine learning model and hardware feedback

- Collaborated with small group to develop a device that gave physical feedback based on ML analysis of users' spoken grammar
- Uses Microsoft Azure speech-to-text to transcribe each spoken sentence
- Uses DistilBERT trained on CoLA to check for grammatical correctness
- Interfaces with Arduino for physical output

97.0FM

Python, Discord.py

Discord.py Music Recommendation Bot

github.com/mzhang/97.0FM

- Created a public bot for the Discord instant messaging platform.
- Makes Youtube Music API calls to generate a Youtube playlist of relevant music from a single provided song

Clean Timer

Java

Java-based Android App for competitive Rubik's Cube solving

ply.gl/com.mzhang.cleantimer

- Worked in Android Studio to build a companion app to record and store puzzle-solving scores and statistics
- Published on Google Play

EXPERIENCES

Computer Science Club Executive – Lakefield College School

September 2018 - June 2020

Led weekly meetings for 20 club members and organized first annual school-wide "Computer Science Day"

Camp Counsellor – Lakefield College School

July 2019 - August 2020

Developed communication, teamwork and problem-solving abilities through working with a team to facilitate growth and academic abilities for 20 students

EXTRACURRICULARS

Hack the North 2020

Hackathon

Canadas biggest Hackathon with 3000+ annual participants

GeekSeek 2020

CTF

Used Python and Java to solve cryptography and cybersecurity challenges

690+ community service hours to date

Volunteering

Strengthened teamwork and communication skills in a variety of environments

EDUCATION

University of Waterloo

Waterloo, ON

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

2020 - 2025