

Jiahao Chen

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Summary

A third-year student who is passionate in developing human-centered software. Always pursuing better performance, security, and user experience. Loves learning new technologies. Looking for an opportunity to learn, grow, and apply knowledge to industry.

Education

McGill University

Montreal, Canada

BACHELOR'S DEGREE - MAJOR SOFTWARE ENGINEERING

Expected Graduation 2022

- **Coursework:** Software Design, Operating Systems, Algorithm and Data Structures, ...

Work Experience

Bytedance / TikTok bytedance.com

NLP LINGUIST INTERN

Apr. 2020 - PRESENT

- Developed 20+ **Python** and **JavaScript** utilities for Automatic-Speech-Recognition
- Analyzed and solved 2 crucial problems of **NLP** model together with 4 engineers and 2 product managers, improved user satisfaction by 50%
- Led 6+ phonetic annotation projects for **Machine Learning**
- Directed **Requirements Engineering** for online mispronunciation diagnosis service

McGill Computer Taskforce ctf.science.mcgill.ca

FRONTEND ENGINEER (VOLUNTEER)

Sep. 2019 - Mar. 2020

- Enhanced exam searching experience of 100+ students by developing a Final Exam Viewer **React** web app
- Practiced **Test-Driven Development** by writing 4+ **Jest** tests

OutChina chinalgbt.org

FRONTEND ENGINEER (VOLUNTEER)

Sep. 2019 - Mar. 2020

- Co-developed the website of 1000+ monthly visitors using **JavaScript**
- Solved 2 video player issues using **RESTful API**. Optimized player-loading time from 30s to 1s.

Projects (Visit github.com/jiahao-c for more)

Easy Syntax Tree [React, TypeScript, D3.js, Firebase]

GITHUB.COM/JIAHAO-C/EASYSYNTAXTREE

- Engineered an visual syntax tree editor in **React** and **TypeScript**. Used **D3.js** for graph data visualization.
- Recommended by Linguistics Professor to students

The Vowel Game [React, Django, WebSocket, SQLite]

GITHUB.COM/JIAHAO-C/THEVOWELGAME

- Designed and developed a multiplayer web game using **websocket**. Implemented backend using **Django**.
- Used **React Hooks** extensively to handle data flow

Research Experience

Multi-modal Speech Evaluation in AI-assisted Language Learning Apps

BYTEDANCE AI LAB

Jul. 2020

- Conducted 50+ experiments of **TTS** and **ASR** abilities in both technical and linguistic perspectives
- Assessed 10+ Speech Evaluation products and services

Skills

Programming Languages	Experienced: JavaScript, TypeScript, Python Some Experience: Java, C++
Tools and Platforms	Linux, Git, Docker, Gradle, Azure/Google Cloud, UML, Sketch/Figma
Frameworks and Libraries	React, D3.js , jQuery, Puppeteer, Jest, JUnit, immer
Industry Knowledge	Agile/Scrum, Design Thinking, Test-Driven Development

Achievements and Open Source Contributions

hackMcwics

Montreal, Canada

2ND PLACE IN HACKATHON

Jan. 2020

- Won 2nd place out of 80 participants. Integrated Apple map in a **React Native** app monitoring forest fire.

Technical Writing Works

GITHUB AND MEDIUM

- Contributed to documentation of ant-design, airbnb/javascript, and 8+ open source projects