

# Emmanuel Ma

## Incoming intern @ Automatic Data Processing

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## EDUCATION

### B.Sc

09/2020 – 05/2024 | Montreal, QC

McGill University

Honours Software Engineering, Minor in Philosophy

Relevant courses: Software Design, Applied Machine Learning, Reinforcement Learning

## PROFESSIONAL EXPERIENCE

### Software Engineer

05/2022 – 08/2022

Mood Disorder Society of Canada

- Increased user accessibility by 15% by integrating Meta's Wav2vec2 speech recognition model with Flask backend for user speech to text functionality.
- Implemented chatbot timeout logic as a user privacy protection measure.
- Fixed various front end bugs with the chatbot and internal portal.

## SKILLS

- Python, Java, C, React, Node.js, NumPy, Pandas, Matplotlib, Flask, MongoDB, HTML/CSS

## ORGANIZATIONS

### Computer Science Undergraduate Society

01/2022 – present

Helpdesk Tutor

- Tutor undergraduate students weekly on course topics such as Python, Java, C, Unix/Linux, Bash, MIPS, circuitry (Logism), algorithms and data structures, automata theory and software design.
- Spearheaded a COMP250(Introductory computer science) review session with 250+ attendees.

## PROJECTS

### Compiler for a mini-C lang

project for Compiler Design course

Wrote a compiler in java that supports a subset of the C language, with MIPS assembly as the backend target.

### Finance Dashboard

Personal investment tracker fullstack app

- Developed a responsive fullstack app allowing users to view market trends, latest financial news and track their portfolio.
- Built the backend API enabling stocks to be stored in an online database and make calls to third party APIs.
- **Tech stack:** React, Node.js, Express, MongoDB, Tailwind, AlphaVantage and Yahoo Finance APIs, Heroku

### AI Paperwork Helper

Web app that uses an ML text summarizer and AI chatbot to make filling out insurance papers easier.

- Developed a web app that enables users to simplify insurance documents.
- Designed and implemented the backend server to run the pre-trained NLP model.
- **Tech stack:** Flask, HTML/CSS, Bootstrap, Python, Clarifai API

### Web Scraper App

Web App that serves only positive news articles

- Created a web app that scrapes articles from news sites and displays only positive news.
- Designed and implemented the backend server to query the SQL database and run the Python script.
- **Tech stack:** Vue, Flask, Bootstrap, SQL, Python, BeautifulSoup

## AWARDS

### Tomlinson Engagement Award for Mentorship

McGill University