

# MAXIMILLIAN FONG

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## EDUCATION

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### McGill University

Bachelor of Science

Major in Honours Computer Science; Minors in Statistics

Relevant Coursework: Artificial Intelligence, Fundls of Machine Learning, Software Design, Applied Regression, Statistics, Cryptography and Data Security

### Dawson College

DEC in Pure and Applied Science

Montreal, QC

Expected Winter 2026

Montreal, QC

Winter 2022

## LANGUAGES AND TOOLS

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### Programming Languages:

Proficient in Python, Java, C, OCaml, MIPS, R, Javascript, HTML/CSS, Typescript

Intermediate in Unix, Bash, Git

Full-Stack Libraries: ReactJS, NextJS, TailwindCSS, ShadCN, MUI, GoogleCharts, Zod, ReactNative, Django RestAPI, NativeWind, Expo, SQLite.

Data-Science Libraries: Matplotlib, Scikit-learn, Pytorch, Numpy, Pandas,

**Languages:** Fluent in French, English; Conversational Proficiency in Chinese (Cantonese)

## PROJECTS/EXPERIENCE (<https://github.com/sham-bolic>)

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### Meal Mates (CodeJam Hackathon project 2024) (TypeScript, ReactNative, NativeWind, Django, SQLite) Nov 2024

- Modern food planning mobile app that allows users to swipe on photos of food and ambiance from nearby restaurants to make plans with friends with similar interests.
- Creating a mobile app with ReactNative front-end using Expo as the routing system.
- Developing a SQLite database with Django RestAPI as well as an authentication system.

### Calendar Web App (TypeScript, JavaScript, ReactJS, TailwindCSS, Drizzle, NextJS, ShadCN, Zod) Aug 2024

- Working in collaboration with a team for both design and integration
- Designing the web app's layout and building the components from scratch
- Ensuring that the reactive UI interacts and updates the database accordingly, while ensuring the data is of the right format
- End-to-end development of the forms, including input validation using Zod

### Digit Recognition Convolutional Neural Net (Python) Nov 2023

- Utilizing Pytorch and Numpy to create a convolutional neural net with 85%+ accuracy
- Using batch regularization, data augmentation and stochastic gradient descent to avoid overfitting and improve test accuracy

### Data Summary and Presentation (R) Dec 2022

- Work in collaboration with a teammate to present and summarize a given dataset
- Manipulating tibbles and data frames to extract useful information and presenting it in different graphs

### NBA Trueskill (Python) Dec 2021

- Applying Microsoft TrueSkill to the 2019 NBA season to predict the outcome of NBA games with 67% accuracy
- Using Pandas and Matplotlib to transform the data into usable data

## WORK HISTORY

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**Brit and Chips** (Server) Mar 2022 - Oct 2023

**Metro Inc.** (Cashier/Bagger) Mar 2019 - Mar 2022

**Camp Kinneret** (Kitchen Staff) June 2021 - Aug 2021