

Ambrose Yip

CONTACT

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EDUCATION

September 2021 - Present BSc (Honors) Computer Science | [Ontario Tech University, Oshawa](#)
Relevant Courses: Linear Algebra, Machine Learning Applications, Web Development, Software Systems Development and Integration, Database Systems, Analysis and Design of Algorithms

TECHNICAL SKILLS

Programming Languages

- Python
- JavaScript
- TypeScript
- Java
- C++

Development Frameworks

- React
- Tailwind CSS

Planning

- Figma
- Notion

Web Development

- Node.js
- Django
- GlassFish
- HTML
- CSS

Data Analysis & Machine Learning

- Jupyter
- NumPy
- Pandas
- Matplotlib
- OpenCV

PROJECTS

Web Chat Server

HTML CSS JavaScript Java

Developed a real-time chat server that facilitates online messaging between multiple users

- Implemented **WebSocket** for real-time communication using **RESTful APIs**
- Designed a rooms system for users to join specific discussions and message within those groups

IOU (I Owe You)

JavaScript React Tailwind CSS

An innovative financial tracking application that manages shared expenses and balances among multiple users.

- Built a robust user system, allowing users to track group and personal balances with ease
- Implemented advanced features to monitor and manage debts, providing detailed statistics for group transactions

Data Mining Project - Scientific Data Analysis

Jupyter NumPy Pandas

A data mining project that analyses school attendance data for 2021-2022 to uncover trends and disparities across different student groups and districts.

- Used statistical techniques to detect significant patterns and trends, providing insights for educational policy improvements

Spam Detector

Java Maven GlassFish

Created a machine learning tool for filtering spam emails using a unigram model.

- Fine-tuned the model to achieve a 94% accuracy rate, significantly reducing false positives.
- Created the dashboard using frontend technologies

Personal Portfolio Website

JavaScript React Tailwind CSS

Designed and developed a personal portfolio website to showcase my projects and professional skills.

- Implemented responsive design for mobile and desktop views.
- Integrated a contact form with email notifications.