

# Ambrose Yip

## PERSONAL INFO

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Portfolio: <https://portfolio.ambrose.yip.dev>  
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## EDUCATION

**BSc (Honors) Computer Science**  
Ontario Tech University, Oshawa  
September 2021 - Present

### Relevant Courses

Linear Algebra, Machine Learning Applications,  
Database Systems, Data Structures and  
Algorithms, Statistics

## TECHNICAL SKILLS

### Programming Languages

Python, JavaScript, TypeScript, Java, C++

### Web Development

React, Tailwind CSS, Node.js, Django, GlassFish,  
HTML, CSS

### Data Analysis & Machine Learning

Jupyter, NumPy, Pandas, Matplotlib, OpenCV

### Generative AI Services

ChatGPT, Claude, Notion AI, Copilot

### Databases

PostgreSQL, MySQL

### Version Control

Git, GitHub

### Cloud Platforms

AWS, Azure

### Planning Tools

Figma, Notion

## ACCOMPLISHMENTS

### Seize the Moment: Software Development Training (2024)

Certificate of Completion

### React.js Udemy Bootcamp (2024)

Certificate of Completion

### Python for Data Science and Machine Learning Bootcamp (2024)

Certificate of Completion

### Foundations of Cybersecurity (2023)

Certificate of Completion

## EXPERIENCE

### RAVDESS Facial Expression and Landmark Tracking

Research Assistant | Ontario Tech University  
September 2024 - Present

- Researching camera tracking for facial expressions and emotions using computer vision.
- Analyzing the RAVDESS dataset to track facial landmarks and expressions.

### Flood Escape 2

QA Tester | Crazyblox Games  
June 2024 - Present

- Conducted in-depth testing of gameplay mechanics to ensure seamless and accurate physics.
- Identified and documented bugs to the lead developer, contributing to more efficient and effective debugging processes.

## PROJECTS

### Minezone MC Official Website | 2024

HTML React Tailwind CSS Python Django MySQL AWS

A full fledged landing page for a Minecraft Server with 300+ active users.

- Utilized Django and React to create a full-stack application, utilizing databases for account information and post information
- Designed features such as user authentication, forums, profiling and automated emails
- Leveraged AWS for deployment and cloud storage solutions.

### Web Chat Server | 2024

HTML CSS JavaScript Java

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

- Implemented WebSocket for real-time chatting using RESTful APIs
- Designed rooms system for users to join specific discussions and messages within those groups
- Collaborated closely with team members to ensure smooth integration of server and client-side functionalities.

### Data Mining Project - Scientific Data Analysis | 2023

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
- Utilized Pandas for data manipulation and analysis, generating meaningful visualizations to support findings.

### Spam Detector | 2024

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
- Created the dashboard using frontend technologies

### Personal Portfolio Website | 2024

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.