

Jacob Ma

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Education

Queen's University

Kingston, ON

Bachelor of Computing (Hons) - 3rd Year

Sept 2021-Expected April 2026

Relevant Coursework: Fundamentals of Software Development, Operating Systems, Artificial Intelligence, Algorithms, Software Specifications, Data Structures, Computer Architecture, Software Architecture.

Summary

Highly motivated third-year student at Queen's University pursuing a bachelor's degree in Computing. Hands-on experience with programming languages like JavaScript and Python and proficient in web development fundamentals such as React and Node.js. Self-motivated and eager to learn, ready to commit to an internship to further develop technical and professional skills.

Experience

Application Developer

May 2024 -Present

Tradr, Toronto, Ontario

HTML, CSS, TypeScript, React, RESTful API, PostgreSQL, Next.js, Node.js, Visual Studio Code, Git

- Created a **web app** using **React** and **Nextjs** to track thousands of cards in a collection of cards.
- Utilised **PostgreSQL** for data synchronisation resulting in seamless integration of trading card and market data.
- Used a **RESTful API** to communicate details of a collection between the front-end and back-end system.
- Implemented **responsive interfaces** to enhance overall usability on all devices.

Projects

Customer Feedback Page

April 2024 - May 2024

Python, Flask, PostgreSQL, Visual Studio Code, Git

- Created a **web app** to receive and store reviews for up to 500 representatives in a database.
- Built a **full stack application** using **Flask** as a framework.
- Utilised **SQL databases** for data synchronisation and seamless integration.

Pirate Blackjack Game

January 2024 - April 2024

C#, Unity, Git

- **Collaborated** with a **team of 5** to develop a **C# and Unity**-based blackjack game with a pirate theme.
- Successfully **led design and project management** by initiating individual and group follow up on **key milestones**
- Utilised **C#** to implement complex **logic and algorithm scripts** contributing to core functionality.

RizzBot

November 2023 - December 2023

Python, CSS, HTML, Visual Studio Code, Git

- Programmed a conversation starter bot using **OpenAI's API** to generate unlimited personalised conversation openers
- Created an interactive webpage with **HTML/CSS** for user inputs, real time replies, and **front to backend connectivity**.
- Developed **Python** code to extract **JSON** files generated to train the AI using custom data sets.

Additional Skills

Robust interpersonal and conflict resolution skills developed through 8 months in a fast paced customer service environment.

Technical Skills: Java, Javascript, C++, C, C#, Python, HTML, CSS, Typescript, Angular, Django, .Net, Flask, React, Node.js, Git, Docker, VS Code, Visual Studio, PyCharm, Eclipse, REST API, Figma

Languages: English, Mandarin