

# Tom Zhu

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## Education

### Carleton University

Ottawa, Ontario

Bachelor of Computer Science Honours, Minor in Statistics

2019-2024

- **12.0 / 12.0 Cumulative GPA**, Faculty Entrance Scholarship, Dean's List, Computer Science Award
- Relevant Coursework: Discrete Structures I, Introduction to Mobile Application Development, Introduction to Computer Science I & II, Introduction to Statistical Modeling I

## Side Projects

### Carleton Timetable Generator

[github.com/zhu-tom/Course-Registration](https://github.com/zhu-tom/Course-Registration)

JavaScript, jQuery, Bootstrap, Python, Flask, BeautifulSoup

- Developed a web application that displays all possible timetables given a list of course codes.
- Users can filter by start/end times and days off, save timetables and view their professor's rating.
- Created a Python script to scrape lecture sections and corresponding tutorials off of the public class schedule using MechanicalSoup and enumerate the possible combinations for the given filters.

### Fast Food Haven

[github.com/zhu-tom/Fast-Food-Haven](https://github.com/zhu-tom/Fast-Food-Haven)

JavaScript, jQuery, Python, Flask, BeautifulSoup, Google Maps API, UIPath

- Led a team of 4 to create a web application that serves as a hub for fast food coupons and deals.
- Programmed a Flask application and Python script to scrape coupon data when requested.
- Implemented Geolocation and Maps API to attach distance and map links to the nearest restaurant.
- **Winner of Best Hack Using UIPath at cuHacking 2020**

### Carleton Volleyball Club Website

[zhutom.com/cuvb-source](https://zhutom.com/cuvb-source)

JavaScript, Node.js, Express.js, MongoDB, React, Gatsby, GraphQL, SCSS

- Developed a MERN stack application used by the Carleton Volleyball Club as a homepage and event registration system. Created front-end in React and Gatsby, and used Lodash to throttle inputs.
- Implemented user authentication services, event database CRUD operations, website administration tools with MongoDB. Constructed mailing from the admin side to users with Nodemailer.

### Speed Mingling App

[github.com/zhu-tom/Viber](https://github.com/zhu-tom/Viber)

Android, Java, Firebase, WebRTC

- Designed an Android application that connects users for anonymous video or text chat using a queue. Created an option to send and accept friend requests after the chat ends.
- Synced video and audio streams using WebRTC Peer Connections. Stored, authenticated, and queued users and facilitated text chat in Firebase.

## Work/Volunteer Experience

### Science Student Success Centre

Jun 2020-Present

Peer Mentor - Computer Science Team

- Supported and motivated first-year student mentees with resources, workshops, and mentoring sessions geared towards adjusting to and succeeding in university and the Faculty of Science.

### Hot Glue Games

Jul 2018-Aug 2018

Quality Assurance Analyst

- Documented bug reports in Azure DevOps and created and executed test plans. Responsible for creative input for new features and variations.

## Skills

Programming Languages: Python, Java, JavaScript, Swift, PHP, C, SQL, GraphQL

Frameworks/Tools: Flask, BeautifulSoup, jQuery, React, MongoDB, Gatsby, Node.js, Express.js, JavaFX, WebRTC, Firebase, OAuth 2.0, REST API, Azure DevOps, Git