Julian Tang

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Education

University of Waterloo - Candidate for Bachelor of Mathematics, Honours (with Computer Science minor)

Majoring in Statistics, estimated graduation Dec. 2025

Experience

Full-stack web developer — Speedyweb Outletshop — Vaughan, ON

January 2024 - May 2024

- Built a webstore using Ruby on Rails to better facilitate product sales
- Handled deployment over Heroku as well as the creation and management of the webstore's AWS S3 buckets,
 PostgreSQL database, and Redis cloud cache database

Student Design Teams

Autonomy Subteam Member - Waterloo Aerial Robotics Group

May 2024 - Present

- Aided in debugging of pathing code which controlled the competition aircraft built for the AEAC 2024 National UAS Competition
- Won both phases of the AEAC 2024 National UAS Competition

Selected Projects

Reversi (https://github.com/0-GEE/reversi)

- Command-line application which implements the board game Reversi
- Written in C++

Markup Manager (https://github.com/0-GEE/markup-manager)

- A data management system which implements an XML-like markup language
- Written in C++

Imageboard (https://github.com/0-GEE/imageboard)

- A danbooru-like imageboard web application which features an in-house Boolean search engine
- Written in Python, HTML, CSS, and JavaScript using Django, jQuery, and Bootstrap

Collabotron (https://github.com/0-GEE/collabotron)

- A client-server system designed to streamline collaborative osu! beatmap creation by allowing all collaborators to sync their local beatmap versions quickly and efficiently.
- Written in Python (backend) and C# (frontend/client application) using Flask and WPF

Name Interpolation (https://github.com/0-GEE/name-interpolation)

- An experiment in using Spline interpolation to recreate a handwritten nickname
- Written in Python using Numpy and Matpoltlib

Skills

- Software: C, C++, C#, Python, Racket, MySQL, SQLite, PostgreSQL, HTML, CSS, JavaScript, R, Rstudio, Make, Git, GitHub, Bash, GDB, ArduPilot, Mission Planner, dotnet, Microsoft Visual Studio, Microsoft Visual Studio Code, LaTex
- Technologies: Ruby on Rails, Numpy, Matplotlib, Ultralytics, OpenAl API, Linux, Django, Flask, jQuery, Bootstrap,
 WPF. .NET. Tailwind
- Protocols: HTTP, REST
- Theory: Algorithms, Data Structures, Propositional Logic, Set Theory, Enumeration, Calculus, Linear Algebra,
 Probability, Statistics (Estimation, Linear Regression, Hypothesis Testing, Sampling)
- Communication: Excellent competency in written and verbal communication in English (native speaker)