ALBERT LAY

✉ alay@uwaterloo.ca 🌐 albertjlay.com in albertjlay ⬡ albertjlay

Technical Skills

Languages	|	HTML, CSS, JavaScript, TypeScript, Python, C
Technologies	|	React, node.js, Git, Jest, Sass, Figma

Relevant Experience

Website Developer | UW Mathsoc
January 2021 - April 2021

- Developed the MathSoc Cartoons page, by collaborating with their coordinator throughout
- Maintained the Mathsoc website to display upcoming events and updates by using WordPress

Projects
*links are embedded in the project title

Unbeatable Tic Tac Toe | TypeScript, Sass
July 2021

- Web-based tic-tac-toe with three opponent types: human, dumb AI, and unbeatable AI
- Built using the principles of object-oriented programming and bundled with Webpack
- Employed unit tests using Jest to achieve 93% line coverage

Personal website | React
June 2021

- Portfolio website hosted in AWS Amplify & built using Create React App with a responsive design
- Utilized Figma to design and prototype the user interface

Pokédex clone | HTML, CSS, JavaScript
May 2021

- Utilized data from PokéAPI and Pokéres Bastion to display information for 809 Pokémons
- Custom-designed cards, with a flip hover animation to exhibit each Pokémon's status

Stats Made Easy | Python
September 2020

- Implemented scipy to calculate the probability of random variables modeled with the normal, binomial, and Poisson distribution, displayed in a custom-designed GUI built with Tkinter
- Implemented numpy and matplotlib to graph the probability density function of the normal distribution

Awards and Distinctions

- University of Waterloo President's Scholarship of Distinction (April 2020)
- Sole recipient of "Top in Indonesia, CIE A Level - Physics" (February 2020)
- Top 25% in the Canadian Senior Mathematics Competition (November 2019)

Education

University of Waterloo | GPA 3.9/4.0
2020 - 2025 (expected)

Candidate for B.SC, Honours Computer Science