

Jason Tan

437-533-6776

tjasonkyle@gmail.com

[linkedin.com/in/jason-tan-swe](https://www.linkedin.com/in/jason-tan-swe)

github.com/AeGGIndie

Education

University of Guelph

Sept 2020 – May 2025

Bachelor of Computing in Software Engineering (GPA: 4.00 / 4.00)

Guelph, ON

- **Relevant Coursework:** Data Structures and Algorithms, Statistics (R), Object Oriented Programming (OOP)

Experience

Microsoft

May 2023 – July 2023

Software Engineer Intern

Montreal, Quebec

- Optimized the client of a SaaS solution used by 500+ organizations, enhancing client performance by 30% through React.js accessibility components
- Proposed an Object Oriented Programming (OOP) solution, streamlining tests for the CI/CD pipeline, resulting in a 85% improvement in efficiency and scalability
- Implemented robust test-driven (TDD) and behaviour-driven (BDD) tests, increasing end-to-end testing coverage by 50% with Playwright
- Collaborated with a team of 20+ engineers and designers to implement AODA accessible components over Figma and Microsoft Teams

Projects

TheCannon Updates | *React.js, JavaScript, MaterialUI, Express.js, MySQL, Google Cloud Platform (GCP)*

- Launched a full-stack web app connecting University students to 1000+ house listings across Guelph.
- Developed a Google Cloud Platform (GCP) solution for data scraping at 5-minute intervals, utilizing a queue-based messaging system to deliver over 200 real-time messages to 50+ users.
- Successfully integrated OAuth2 services, enabling fast authentication for over 50 users via Google and Discord.

Social Media Visualizations | *React.js, TypeScript, TailwindCSS, Express.js, MongoDB, Docker, GitLab*

- Led a collaborative effort with a team of 3 developers to create a full-stack web app measuring toxicity, analyzing over 100,000 online listings with Google's Perspective API.
- Visualized relationship of toxicity data between Youtube and Reddit with real-time pie charts for comparison, indicating over 50% of toxicity exists on Reddit compared to Youtube.
- Built a CI/CD pipeline using GitLab and Docker, reducing deployment time by 65% and ensuring consistent and reliable releases.

CourseFetch | *JavaScript, HTML, CSS, Node.js, Electron*

- Prototyped a desktop application optimizing course registration during peak times, reducing the process time from 20 seconds to an impressive 2 seconds.
- Implemented a local service for real-time course updates, increasing the chance of course enrollment by 90%.
- Streamlined the authentication process for students, achieving a 83% reduction in registration latency by leveraging HTTP clients and tokens.

Apple Clock Clone | *React.js, JavaScript, TailwindCSS, HTML, CSS, Wasp*

- Crafted a web application mirroring the aesthetics of Apple's Clock software, with a focus on an intuitive design.
- Implemented a countdown component covering a 24-hour span, replicating the visual finesse of Apple's Clock.

SVG Parser and Customizer | *JavaScript, Bootstrap, HTML, CSS, Express.js, MySQL, MariaDB, GitLab*

- Created a full-stack web app designed for viewing, customizing, saving, and uploading SVG's based in C.
- Engineered an efficient SVG parsing library in C, enabling data extraction and customizable rendering.

Technical Skills

Languages: TypeScript, JavaScript, HTML, CSS, Python, Java, C

Technologies: React.js, MaterialUI, Bootstrap, jQuery, TailwindCSS, Griffel, Express.js, Node.js, Flask, MongoDB, MySQL, MariaDB, Electron, Docker, Git, Google Cloud Platform (GCP), Jest, Playwright, Cucumber, Jira

Concepts: Compiler, Operating Systems, Virtual Memory, REST API, API, Agile Methodology, Caching, Object Relational Mapping (ORM), Databases, Accessibility