

# Andy Thao

St. Paul, MN | (651)313-4533 | [atengthao@gmail.com](mailto:atengthao@gmail.com) | GitHub: <https://github.com/atengthao> | Portfolio: <https://atengthao.github.io/>

## EDUCATION

**University of Minnesota - Twin Cities**, Minneapolis, Computer Science: Bachelor of Arts May 2023

**Degree:** Bachelor of Arts in Computer Science

**Overall Cumulative GPA:** 3.00

**Relevant Coursework:** Algorithms and Data Structures, Advanced Programming Principles, Machine Architecture and Organization (C), Program Design and Development (C), Programming Graphics and Games, Internet Programming

## SKILLS

- **Languages:** C#, C, HTML+CSS, JavaScript, SQL, Java, Python, OCaml, XML
- **Technologies:** Unity Game Engine, Git, Linux, Doxygen
- **Software:** GitHub Desktop, LaTeX, Photoshop
- **Soft skills:** Agile Methodologies,

## PROJECTS

**Implementing a Heuristic for a 2048 Game AI (Java)**, University of Minnesota Jan 2023 – May 2023

- Improved the consistency of an existing 2048 game AI by implementing a new heuristic/scoring system in a group of three.
- Played a crucial role in quickly analyzing and building upon the online source code while also elaborating my findings.
- Led the experiments and testing of various heuristics that were given as well as ones our group had implemented.
- Wrote a formal research paper on our results that detailed our comparisons of the AI in the 2048 game.

**Additional Drone Simulation Development**, University of Minnesota June 2021 – Aug 2021

- Applied agile methodologies in a team of three others in order to build upon a drone simulation.
- Expertly navigated and leveraged sophisticated drone simulation code to align it with a multitude of design patterns.
- Conceptualized and implemented a dynamic fuel-based speed feature for the drone, providing adaptability for future modifications.
- Thoroughly documented all additional code using Doxygen, ensuring comprehension and accessibility.

**Schedule Webpage Creation with Server Implementation**, University of Minnesota Jan 2023 – May 2023

- Developed a dedicated HTML-based webpage designed as a simplistic scheduler to be built upon with various features over the course of a semester.
- Beautified the webpage's aesthetics and improved user experience by leveraging CSS and JavaScript to tailor its style.
- Revamped the webpage to incorporate Node.js, transforming it into a fully functional server for use with databases and user logins.
- Utilized MySQL database integration to seamlessly incorporate new scheduled events to be dynamically displayed.

**Portfolio Website (React, JS):** <https://atengthao.github.io> May 2023 – July 2023

- Created and deployed a Bootstrap-based React webpage on GitHub Pages, serving as a dynamic showcase of my skills.
- Incorporates various Bootstrap features to enhance the visual appeal and user-friendliness of the webpage.
- Provides comprehensive and detailed information about myself, including my skills, background, and achievements.