

Thinh Nguyen

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EDUCATION

- **University of Massachusetts, Amherst** Amherst, Massachusetts, USA
Bachelor of Science in Computer Science, GPA: 4.0, Dean's List Honor Sep. 2021 – May. 2025
- **Saint Anthony High School** New York, USA
High School Diploma, GPA: 4.0, Dean's List Honor Sep. 2019 – May. 2021
- **Le Quy Don High School for the Gifted** Da Nang, Vietnam
High School Diploma, Specialized Mathematics Program Sep. 2018 – May. 2019

PROGRAMMING SKILLS

- **Languages:** HTML, CSS, JavaScript, Java, Python, C/C++ .
- **Technologies:** Node.js, Express, jQuery, NPM, Git, GitBash, GitHub, MongoDB, Mongoose, LaTeX, Bootstrap.

EXPERIENCE/PROJECTS

- **Food Reviews Web Application**
HTML, EJS, CSS, JavaScript, Node.js, Express, NPM, MongoDB, Mongoose, Passport.js, Heroku
 - **Website:** <https://cryptic-ravine-28138.herokuapp.com>
 - **Food Reviews** application is a platform for users to publish their food products for advertising purpose, and other users can view, rate and comment on public food posts with their registered account.
 - Use **Express** to handle server-side process and create APIs.
 - Create mongoDB object models and manage data sharing with **Mongoose**.
 - Built **client-side interface** with styling by using **Embedded JavaScript, CSS** and **Bootstrap**.
 - Design **two-layer validation** by using **Bootstrap** for client-side form submissions and **JOI** validation middleware for server-side.
 - Used **MongoDB Atlas** to store Mongoose database.
 - Used **Passport.js** middleware for user authentication.
 - Built and deployed website with **NPM, Node.JS** and **Heroku**.
- **Space War Games**
Python, Pygame
 - **Source Code:** <https://github.com/ThomasN12/SpaceWar>
 - **Space War** is a two-player game in which two players will control their spaceships and fire bullets to attack until one of them runs out of health.
 - Game interaction is built based on blocks' colliding and keyboard events implemented by using **Pygame** library.
- **Tic-Tac-Toe**
Python
 - **Source Code:** <https://github.com/ThomasN12/TicTacToe>
 - A player versus computer game based on the original **Tic-Tac-Toe** game.
 - The bot uses **Greedy Algorithm** to automatically respond to player's moves.

COURSEWORK

- **AP Computer Science A:** College-credit programming course emphasizing on Object-Oriented Programming and Design using Java.
- **COMPSCI 187:** Course on Data Structures and Algorithms, focusing on designing and implementing different data structures with Java programming language.
- **COMPSCI 220:** Course on modern programming methodology, focusing on programming abstractions, testing, and debugging.
- **COMPSCI 250:** Course on Discrete Mathematics for computer science.