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*

Programming Skills

- **Languages**: HTML, CSS, JavaScript, Java, Python, C/C++ .
- **Technologies**: NodeJS, ReactJS, Express, jQuery, Git, MongoDB, Mongoose, LaTeX, Bootstrap, Heroku.

Experience/Projects

- **Food Reviews Web Application**
  HTML, EJS, CSS, JavaScript, NodeJS, 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**.
- **Personal Portfolio Website**
  HTML, CSS, JavaScript, Bootstrap, Github
  - **Website**: https://thomasn12.github.io/personal-portfolio
  - Built the front-end interface with **HTML**, **CSS**, and **Bootstrap**.
  - Built the front-end functionalities with **JavaScript**.
  - Use **FormFree** to make the form submission workable.
- **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.