

ALTHAN NGUYEN

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Education

University of Massachusetts Amherst

Bachelor of Computer Science

Expected Graduation: Fall 2027

Amherst

- Dean's List — **GPA: 3.83**
- Courses: Data Structures, Intro to Algorithms, Programming Methodology(Typescript), Discrete Mathematics, Reasoning Under Uncertainty, Computer Science Principles, Linear Algebra
- Clubs: CICSoft, iGem, Pickleball Club

Technical Skills

Languages: Java, Python, Typescript, JavaScript, SQL, C

Developer Tools: Git, Github, VSCode, Excel

Libraries/Frameworks: React, Angular, Node.JS, Tailwind CSS, Pandas, Three.js

Experience

Manning College of Information and Computer Science

Jan 2026 – Present

Undergraduate Course Assistant - Computer Systems Principles

Amherst, MA

- Provides academic assistance to a class with over **200+** students, teaching fundamentals of C, system design, assembly, and operating systems.
- Leads weekly lab sessions with **20+** students and held weekly office hours
- Administered exams and graded homework in timely manner

UMass Code Collab

June 2025 – Present

Software Engineer

Amherst, MA

- Developed an interactive, visually polished website template using **Tailwind CSS** with **React**
- Collaborated with a team of **5** in weekly meetings to brainstorm, plan, and implement new features
- Designed a reusable portfolio project template, enabling users to fork and customize their own website, deployed on **Vercel**

BHS Flipped Internship

April 2024 – June 2024

Front End Web Developer Intern

Burlington, MA

- Underwent project based learning using **HTML, CSS**, and **Typescript** using **Angular**
- Collaborated with **5** interns and **2** mentors to solve issues and implement feedback into project's development
- Developed a final website for a graduated art students portfolio website

Projects

Moodscape - HackUmass XIII

React | Three.js

- Built a **full-stack** music mood analysis integrating **Spotify** OAuth authentication to categorize user music taste into **6** distinct emotional categories during a 36-hour hackathon
- Designed intelligent tag scoring algorithm using weights based on weak and strong tag descriptors
- Integrated **Spotify API** and **Last.fm API** to fetch users top **50** listened tracks to retrieve comprehensive music metadata of artist and specific track genre tags

UMass Food Finder - HackUmass XII

JavaScript | Python | Flask

- Developed a **full stack web application** that **web scrapes** through dining hall menus using **Python** and **Flask** to find food cravings during a 36-hour hackathon
- Utilized **JavaScript** to create an auto-complete food recommendation based on user search input

Pokemon Database Management System

Python | SQL | Pandas

- Integrated with Pokemon **RESTful API** to process over **1,300+** Pokemon using **JSON** files to store into an **SQL** backend server
- Implemented multi criteria search system supporting **6+** filter types and displayed using **Pandas**