

ALTHAN NGUYEN

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Education

University of Massachusetts Amherst

Bachelor of Computer Science

Expected Graduation: May 2027

Amherst

- Dean's List — **GPA: 3.83**
- Courses: Data Structures, Algorithms, Programming Methodology(Typescript), Discrete Mathematics, Reasoning Under Uncertainty, Computer Systems Principles, Artificial Intelligence, Software Engineering, Data Management
- 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 **100+** students, teaching fundamentals of C, system design, assembly, and operating systems.
- Led weekly lab sessions and graded lab work in a fair and timely manner
- Communicated with professors and peers to ensure a positive and productive learning environment

UMass Code Collab

June 2025 – Present

Software Engineer

Amherst, MA

- Designed an **AI** ChatBot catered to help students on their educational journey through college, with a **streamlit** frontend and a **fastAPI** backend, utilizing **Gemini API** for API calls
- Developed a personal portfolio website using React and Tailwind CSS for students to use as a template, deployed on Vercel
- Attended weekly meetings to discuss feedback, progress, and new features for current and upcoming projects

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 | last.fm

- Built a **full-stack** music mood analysis integrating **Spotify** OAuth authentication to categorize user music taste during a 36-hour hackathon using **React** and **last.fm** API
- Designed intelligent tag scoring algorithm using weights based on weak and strong tag descriptors
- Utilized **three.js** to design 3D Virtual environments using open-source models to create 6 distinct mood worlds

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**