

# Adithya Kethu

## Student Leader

My Website: <https://akethu.github.io/adithyakethu/index.html>

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Amherst, MA

### WORK EXPERIENCE

#### Toothprints PC

##### Software Engineering Intern

Natick, MA | May 2021 - August 2021

- Learnt a multitude of technologies: built the python backend for a published app, built a website using React, built a website using HTML, CSS, Node.js and Express.js and built the front end for an app from scratch using Flutter and Dart.
- More info can be found at <https://akethu.github.io/adithyakethu/startup.html>

#### University of Massachusetts Amherst

##### Resident Assistant

August 2021 - current

- Strategise academic planning and manage residents in the dorm by collaborating with peers and mentors.

##### Tech Member

HackUMass | July 2021 - current

- We are working on the official HackUMass Website and the dashboard (built using Ruby on Rails).

##### Undergraduate Research Assistant

Data Systems Lab | June 2021 - current

- Working on a project called 'NextDoor' which uses deep graph learning to accelerate graph sampling using GPU's.
- Currently working on "Stochastic Training in Graph Neural Networks (GNN's)" and "Rejection Sampling with Deep Graph Learning" using Python and PyTorch module.

##### Undergraduate Research Assistant

May 2021 - August 2021

- Built a form from scratch using HTML, CSS, XML, Oracle SQL Database and Node.js. The form also has dynamic components coded using JS.
- Access the project at <https://github.com/akethu/hci-age-vis>

##### CS Supplemental Instructor

Jan 2021 - May 2021

- Conduct review sessions and help students prepare for course material related to programming in Java by working alongside the class Professor.
- Prepare CS curriculum worksheets.

### SKILLS

- Javascript/ Node.js
- Python (Django)
- HTML, CSS
- Java
- Flutter
- Git
- React
- SQLite/ Firebase
- C
- Heroku
- API (Using Flask)

### EDUCATION

#### B.S.

##### Honors in Computer Science

##### Minor in Business

University of Massachusetts  
Amherst

2019 - current

Amherst, MA

CGPA: 4.0

*Dean's List (4/4 semesters)*

*Departmental Honors Student*

*Chancellors Scholarship Award*

*Tech Member of HackUMass*

# **The Massachusetts Daily Collegian**

## **Web Developer/Designer**

Jan 2021 - May 2021

- An on-campus position wherein I was responsible for web development & design of the Massachusetts Daily Collegian news website.

## **PROJECTS**

### **Around UMass with Deep Graph Learning**

Built from scratch using python, django, torch and deep graph library

- Built an interactive navigator for my college, UMass Amherst, using tensor graphs.
- Shows the nearby buildings to a specific building and also the shortest distance (along with magnitude and duration of travel) between any two buildings.

### **Pac-Man Emulator**

Built from scratch using HTML, CSS and JS.

- Recreation of the famous arcade game: includes features such as AI controlled ghost, pro-mode, timer, automatic scroll-lock, scoreboard and much more!

### **Battleship Ai**

Built from scratch using HTML, CSS and JS.

- Recreation of the famous board game: includes features such as AI controlled opponent, automatic placement of ships, auto scroll-lock, auto control-lock and more!

### **Gnathic-Click App**

Built from scratch using Flutter & dart.

- Coded all the pages of the app using material UI, dart and pubdev packages.

### **Simple To-Do CLI**

Built from scratch using Python, Click and SQLite.

- A simple command line interface, integrated with password authentication, that lets users register/create/delete to-do tasks.

### **Covimmune: All-in-one medical dashboard**

Built from scratch using HTML, Tailwind CSS, API, Firebase and Javascript.

- An all-in-one medical dashboard to analyse, store, remind and share medical data among all hospitals.