

Adithya Kethu

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Amherst, MA

An Honors undergraduate student majoring in Computer Science and minoring in Business.

EDUCATION

University of Massachusetts Amherst - B.S., Honors in Computer Science

May, 2019 – December, 2022 (Expected) | GPA: 4.0

Amherst, MA

Highlights: Dean's List (4/4 semesters); Departmental Honors Student; Chancellors Scholarship Award; Tech Member of HackUMass; Software Developer at BUILD UMass

SKILLS

Python (Django), Java, JavaScript, C, Node.js, HTML5, CSS, API (Using Flask), Flutter, Git, React, SQLite, Firebase, Heroku, Deep learning, Data Structures & Algorithms, PostgreSQL, MongoDB

WORK EXPERIENCE

BUILD UMass - Software Developer

August 2021 - current

- A part-time voluntary position at a "pro-bono" student-run organization called BUILD UMass.
- We build software products such as websites, apps for micro-organizations around UMass for free.

University of Massachusetts Amherst - Resident Assistant

August 2021 - current

- Strategizing academic planning and managing residents in the dorm by collaborating with peers and mentors.

Data Systems Lab - Undergraduate Research Assistant

June 2021 - current

UMass Amherst

- 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 PyTorchmodule.

Toothprints PC - Software Engineering Intern

May 2021 - August 2021

Natick, MA

- 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>.

HackUMass - Tech Member

May 2021 - current

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

Human Computer Interaction & Visualization Lab - Undergraduate Research Assistant

- 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>.

University of Massachusetts Amherst - 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 curriculum worksheets.

PROJECTS

Around UMass with Deep Graph Learning - Built from scratch using python, Django, PyTorch and deep graph library

- Built an interactive navigator for my college, UMass Amherst, using tensor graphs: <https://github.com/akethu/UMass-Map-DGL>
- 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 - 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: <https://github.com/akethu/pac-man>

Pacified® Website - Built using React & Styled Components.

- Built this website (now published!) from ground up during my 21' summer internship: <https://pacifiedapp.com/>

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: <https://github.com/akethu/battleshipAi>

Gnathic-Click App - Built from scratch using Flutter & dart.

- Coded all the pages of the app using material UI, dart and pubdev packages: <https://akethu.github.io/adithyakethu/startup.html>

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. <https://github.com/akethu/cli-todo>

Covimune: 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: <https://github.com/akethu/covimune>

Open-Source Contributions

- Next Door (independent research study) (<https://shorturl.at/xBC45>)
- HackUMass IX Website (<https://shorturl.at/guIN5>), About HackUMass (<https://shorturl.at/mtvEY>)
- Student Bridges Website (<https://shorturl.at/fvTX5>)

LINKS

- My portfolio: <https://akethu.github.io/adithyakethu/>
- LinkedIn: <https://www.linkedin.com/in/adithyakethu>
- GitHub: <https://github.com/akethu>