Adithya Kethu

Student Leader

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Amherst, MA

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

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 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
University of Massachusetts Amherst
2019 - current
Amherst, MA
GPA: 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 am responsible for web development & design of the 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.

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.