Adithya Kethu

+1 413-930-5170 | akethu@umass.edu | GitHub Profile | Website | LinkedIn Profile

EDUCATION

University of Massachusetts, Amherst

Amherst, MA

Honors in Computer Science and minoring in Business

September 2019 - December 2022

Awards: Dean's List; Chancellor's Award for Merit;

GPA: 3.99/4.0

Relevant coursework: Machine Learning; Artificial Intelligence; Algorithms; Data Structures; Web Programming; Programming methodologies; Reasoning under Uncertainty; Computer Systems (C); Introduction to Computation

SKILLS

Tools/Frameworks: Spring Boot, Django, Flask, Docker, Kubernetes, Git, Flutter, Node.js, Deep Learning Technical Languages: Java, Python, React, JavaScript, C, HTML5, CSS3, SQL, NoSQL

EXPERIENCE

WAYFAIR LLC

Boston, Massachusetts

Software Engineering Intern - Recs Platform Team

June 2022 - Present

- Spearheaded the production of a full-stack application using Spring Boot (Java), React, SQL, Docker & Kubernetes.
- My tool improved efficiency by 60% by allowing engineers to edit recommendation algorithms without any code.
- Built RESTful APIs, built modularized code structures, productionized database, created documentation, created unit tests, built reusable React components, contributed towards SDK feature releases, amongst others.

TOOTHPRINTS PC

Natick, Massachusetts May 2021 - May 2022

Software Engineer Intern

- Worked with an orthodontist on helping him revise, design and manage the technical landscape for the company.
- Built a python algorithm for a scientific app (Pacified App®, now published) by reviewing scientific journals.
- Used a face recognition API to code the algorithm which suggests the *scientifically* right pacifier for a baby based on facial biometric measurements. Generated <u>mathematical models</u> to verify results.
- Built the company website from scratch using HTML5, CSS3, Bootstrap, JQuery and API (for contact form).
- Built a website from scratch using React for the Pacified App®.

BUILD UMASS

Amherst, Massachusetts

August 2021 - Present

- Managed 3 software developers and 3 business developers throughout the software lifecycle.
- Spearheaded the production of an OCR application, which can analyze text/match similar images.

PROJECTS

Tech Lead

AROUND UMASS WITH DGL - BUILT USING PYTHON, DJANGO, PYTORCH AND DEEP GRAPH LEARNING (DGL).

- Built an interactive navigator for my university from scratch, using tensor graphs.
- Used a combination of DFS, BFS and DGL graphs to recommend the shortest path between 2 nodes (buildings).

GNATHIC CLICK APP - BUILT USING FLUTTER, PYTHON (FLASK), FACE DETECTION ALGORITHM & MONGODB

- Spearheaded the production by designing and coding the UI for the app from scratch using Flutter & Dart.
- Designed a Random Forest algorithm to scan & predict cranio-facial growth condition with upto 90% accuracy.

PACIFIED APP® - BUILT USING PYTHON, DJANGO, DEEP GRAPH LEARNING AND FACE ALIGNMENT ALGORITHM.

• Designed an algorithm for a published app which scans the face and suggests the scientifically-right pacifier.

STUDY BUDDY - BUILT USING JS, NODE.JS, BOOTSTRAP, HEROKU & MONGODB ATLAS.

- Designed & coded a <u>platform</u> which enables students to find study peers for their respective classes.
- Lead production for features such as user/group creation, notifications, authentication, setting pipelines, etc.

CONFERENCES

WORLD SLEEP 2022, ROME

March, 2022

- Got selected to present an abstract thesis for Gnathic Click app's algorithm in Rome.
- Designed an algorithm which scans a baby's face and aids as a screening tool for orthodontists to diagnose prognathism or retrognathism; the app can save thousands of dollars for parents if diagnosed early.

MASSACHUSETTS UNDERGRADUATE RESEARCH CONFERENCE, REMOTE

April, 2022

• Got selected to present an abstract thesis for Gnathic Click app's algorithm.

OPEN SOURCE CONTRIBUTIONS

- NextDoor: Headed an independent study on integrating Python constructs in C so as to fuse NextDoor with Deep Graph Learning modules.
- HackUMass IX: Co-built reusable HTML5, CSS (Bootstrap) components of the website with a team of 9.

LEADERSHIP ROLES: (1) Co-Founder at QuickNotes (2) Tech Chair at CICS COST