Sarang Kale

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Education

University of Massachusetts Amherst, Amherst, MA   Expected Graduation: May 2026
Bachelor of Science in Computer Science, Minor in Mathematics
Honors College, Cumulative GPA: 3.75

Experience

Backend Developer Intern, Global Business Consulting Services (GBCS) Group – Remote   Feb 2025 - May 2025
- Completed 10+ backend tasks, resolving data deletion issues, enhancing template management, and more while collaborating with a team of 15 software developers.
- Implemented automated testing for GBCS's Request For Proposal (RFP) management system, increasing code reliability by 15% and preventing regressions before deployment.
- Accelerated performance in the RFP management system, reducing user response time by 20% through query optimization and API response efficiency.

Undergraduate Research Assistant, University of Massachusetts Amherst – Amherst, MA   Dec 2024 - Feb 2025
- Utilized lightning.ai and Pytorch to conduct research on large language models (LLMs) under PhD student's guidance, analyzing over 10 distinct datasets and 3 transformer models.
- Constructed a poster and presented findings to about 50 students and faculty.
- Investigated theoretical trade-offs between cache size, robustness, and accuracy, enhancing LLM performance by 20% in accuracy and memory efficiency using CacheGen.

Projects

Weather Web App – JavaScript, HTML, CSS, VS Code   Aug 2024
- Established a weather web application to display the weather of any city in the world at the current time.
- Leveraged the AccuWeather Locations API, efficiently integrating over 10,000 data points to provide accurate and dynamic weather updates.

MinuteMunch (Hackathon Project) – React, Python, HTML, CSS, JavaScript, VS Code, MongoD   Nov 2023
- Built a delivery system website for dining hall grab-and-go meals, enabling over 1500 students to receive food at their dorms instead of walking multiple miles.
- Applied the UMass Dining API to salvage different menus of dining halls to allow users to compile orders.

Blog Website – Python, Django, HTML, CSS, VS Code   June 2023 - Sep 2023
- Developed a personal blog website to showcase personal hobbies and interests.
- Finalized and shared 5 blog posts that had over 100 users view, favorite, comment, and rate.

Evil Hangman – C, Linux   Jan 2023 - May 2023
- Designed a console hangman game that maintains a list of all words in the English dictionary and continuously removes words based on the user's guess.
- Implemented with a vector structure and an AVL tree to search for key letters.

Technical Skills

Languages: C/C++, Python, Java, JavaScript, TypeScript, HTML, CSS, SQL
Tools: GitHub, Django, Express, ReactJS, VS Code, Replit, MongoDB, Excel