Saaketh Sodanapalli

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Education

University of Massachusetts Amherst Amherst, MA
Bachelor of Science in Computer Engineering/Bachelor of Science in Mathematics *Expected: May 2026*

Relevant Coursework

Math Tools for Data Science/ML, Systems Programming, Computer Articture, Advanced Programming, Data Structures and Algorithms, Discrete Math, Probability and Statistics, Abstract Algebra, Calculus 3.

Projects

Spotify Current Song Player | *JavaScript, HTML, RESTful API's* July 2024

- Developed a Chrome extension that seamlessly integrates with Spotify, displaying the currently playing song in real-time on the top left of the browser tab, enhancing user experience with live music updates.
- Engineered the extension using HTML and JavaScript, leveraging Chrome APIs to manage permissions and dynamically render the song display within the tab. Integrated Spotify's API to securely authorize user access and retrieve real-time song data, ensuring smooth and responsive functionality.

Cooking Recipe Generating Website | *Python, React.js, Flask, Git* November 2023

- Developed a full-stack web app that lets users search for Food Network recipes based on inputted ingredients, offering a seamless user experience.
- Designed the front-end with React.js for a responsive interface, and implemented a Python-based back-end using Flask for API requests and server-side logic, with Git for version control.
- Integrated the GitHub API to query and display recipes from the Food Network's database, allowing users to easily find recipes based on ingredients.

Machine Learning House Price Predictor | *Python, Pandas, Numpy, Seaborn* May 2023

- Developed a machine learning model to predict housing prices using linear regression and gradient descent, improving prediction accuracy by minimizing MSE over 500 iterations.
- Utilized Python, with Pandas and Numpy for data manipulation and Seaborn for graphic visualizations.

Ultrasonic Distance Tracker | *C, Arduino* May 2023

- Built a device that tracks and displays an object's distance from a sensor on an LED screen.
- Coded using C, using an ultrasonic sensor and LED display connected to an Arduino to monitor and display the distance.

Portfolio Website | *React, HTML/CSS, Next.js, Git* Dec 2022

- Developed a responsive portfolio website to showcase my projects and socials.
- Used React and Next.js, managed with Git for robust version control and seamless deployment.

Technical Skills

Languages: Python, JavaScript, C, RISC-V Assembly, SQL, Java, MATLAB, Microsoft Excel, Awk, Bash
Frameworks and Libraries: React.js, Node.js, Flask, Next.js, Pandas, NumPy, Matplotlib, PyTorch, Seaborn
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, Eclipse
Operating Systems: Windows, Linux, iOS

Interests

Mathematics, Artificial Intelligence, Reading, Skiing, Swimming, Triathlons