

Sai Satwik Bikumandla

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SUMMARY

Highly motivated Software Engineer with a Master's in Computer Science, specializing in full-stack web development, machine learning, and cloud technologies. Proficient in JavaScript, React, Node.js, Python, AWS, and database management (MongoDB/MySQL). Proven ability to deliver scalable web applications, optimize performance, and solve complex technical challenges.

WORK EXPERIENCE

Rethink UX

Chandigarh, India

Web Developer Intern

October 2022 – December 2022

- Developed and deployed dynamic web applications for SaaS clients, ensuring alignment with business requirements.
- Boosted application performance by 90% through the implementation of a Content Management System (CMS) leveraging static templates and dynamic content delivery.
- Managed and secured sensitive user data in SQL databases, integrating robust encryption and access control mechanisms to ensure data integrity and privacy.

ADDITIONAL EXPERIENCE

State University of New York, Athletics Department

Albany, New York

Student Assistant (Parking Staff)

July 2024 – Present

- Managed parking operations for university athletic events, ensuring compliance and assisting visitors.
- Provided customer service and maintained order in parking areas.

EDUCATION

State University of New York

Albany, NY

Master of Science in Computer Science

August 2024 – Present

PROJECTS

Movie Recommendation System

[Live Demo](#) | June 2025 – July 2025

- Engineered a content-based movie recommendation system leveraging Machine Learning concepts, including cosine similarity.
- Executed efficient data preprocessing and vectorization techniques on a dataset of approximately 5000 movies sourced from TMDb.
- Achieved high recommendation accuracy, validated by a Precision@5 score of 0.6, demonstrating strong model performance.

News Application

[Live Demo](#) | June 2025 – July 2025

- Developed a responsive News Application using MongoDB, Express.js, React, Node integrating with the GNews API for real-time news fetching.
- Implemented key functionalities including dynamic news filtering by category, robust search capabilities, and a user-friendly news saving feature.
- Demonstrated proficiency in full-stack development, API integration, and state management within a modern web application.

SKILLS

Languages: C++, Java, JavaScript, Python, SQL

Web Technologies: CSS, HTML/DOM, REST APIs

Frameworks/Libraries: Express.js, Node.js, React

Version Control: Git, GitHub

Database: MongoDB, MySQL

Cloud Technologies: AWS, Vercel, Heroku, Render

Testing Tools: Selenium

Machine Learning: Cosine Similarity, Data Preprocessing, Vectorization