SAI SATWIK BIKUMANDLA

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Professional Summary

Software Engineer and M.S. Computer Science candidate with hands-on experience building and deploying full-stack applications. Strong foundation in data structures, REST APIs, and cloud deployment. Proficient in React, Node.js, TypeScript, and MongoDB, focused on scalable, maintainable software systems.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, Java, C++, SQL
Frontend: React, Next.js, Tailwind CSS, Responsive UI, Component Design
Backend: Node.js, Express.js, REST APIs, Authentication, Error Handling
Databases: MongoDB, MySQL
DevOps & Tools: Git, GitHub, CI/CD, Vercel, Render, Postman
Concepts: Data Structures, Algorithms, OOP, SDLC, Agile/Scrum
Testing: Debugging, Unit Testing (Jest), API Testing

Education

University at Albany, SUNY	Aug 2024 – Present
M.S. in Computer Science (Systems Concentration)	Albany, NY
Sri Indu College of Engineering and Technology	Aug 2020 – Apr 2024
B.Tech in Computer Science and Information Technology	Hyderabad, India

Projects

News Application *MERN Stack, JWT Authentication* — GitHub | Live

- Developed a full-stack news application with secure authentication and role-based access using JWT and protected routes.
- Designed RESTful APIs and MongoDB schemas to manage user preferences and saved articles with consistent data access.
- Deployed the frontend and backend with automated builds to support stable production releases.

Resume Builder *Next.js, TypeScript, LaTeX* — GitHub | Live

- Built a resume builder that converts structured user input into ATS-optimized LaTeX resumes exported as PDFs.
- Implemented reusable, type-safe components and validation to improve input accuracy and user experience.
- Integrated automated PDF generation and deployed the application to enable real-world usage and iteration.

Movie Recommendation System *Python, Machine Learning* — GitHub | Live

- Implemented a content-based recommendation engine using TF–IDF and cosine similarity for personalized suggestions.
- Built preprocessing pipelines to improve feature quality and recommendation relevance.
- Designed the system to support scalability and extension to larger datasets and additional features.

CommitMoji *React, TypeScript, Tailwind CSS* — GitHub | Live

- Implemented emoji search functionality by designing a reusable SearchBar component and integrating controlled state management in React.
- Developed client-side filtering logic to dynamically match emojis by symbol, commit code, or description, improving usability and discoverability.
- Enhanced user experience by handling empty search states with clear visual feedback and deployed updates via automated Vercel builds.

Experience

Executive Assistant to CEO	Mar 2024 – Jun 2024
eSahayak	Remote

- Optimized React components to improve frontend responsiveness and reduce load time by 10%.
- Organized project documentation and tracked engineering deliverables to improve execution visibility.
- Identified and documented software defects with clear reproduction steps to accelerate issue resolution.

Web Developer Intern	Oct 2022 – Dec 2022
Rethink UX	Remote

- Delivered modular web features aligned with UX specifications for SaaS clients under tight timelines.
- Improved page performance by refactoring static templates, reducing load time by 20%.
- Implemented SQL-based access controls to enhance data security and integrity.

Developer Advocate	Jun 2022 – Aug 2022
StudyExperts	Remote

- Created Python and MySQL tutorials and examples to support developer onboarding and product adoption.
- Authored technical documentation that reduced repeated support queries and improved self-serve usage.

Additional Experience

Student Assistant	Jul 2024 – Present
SUNY Athletics + Dining	Albany, NY