S Vyaas Sundar

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Education

SRM Institute of Science and Technology,   July 2022 – Present
BTech in Computer Science and Business Systems   *GPA: 9.56/10*
Coursework: *Object-Oriented Programming, Data Structures & Algorithms, Operating Systems, Database Management, Computer Organization and Architecture, Formal Language and Automata Theory.*

Skills

Languages: Python, PostgreSQL, HTML, CSS, JavaScript

Tools: Git/GitHub, Chrome Extension API (Manifest V3), GitHub REST API

Libraries: pandas, NumPy, Matplotlib, PyTorch, Node.js, Express.js

Projects

LeetLink | *JavaScript, Chrome Extension API (Manifest V3), GitHub API* [Live on Web Store]   Dec 2025
- Published a Chrome Extension (Manifest V3) that automates LeetCode-to-GitHub syncing, reducing portfolio maintenance time by $\sim$95% ($<$5s/problem).
- Architected a script injection bridge to bypass Chrome's "Isolated World" security, enabling 100% accurate code extraction directly from the Monaco Editor.
- Integrated GitHub REST API to programmatically handle version control and auto-generate dynamic READMEs, achieving serverless synchronization.
- Implemented secure auth using Chrome Storage API to persist credentials locally, ensuring data privacy without backend infrastructure.

Shell | *Node.js*   May 2025
- Engineered a Unix-like shell from scratch in JavaScript, implementing a fully functional REPL to execute user commands in a simulated terminal environment.
- Developed core built-in commands (cd, pwd, echo, type) with support for absolute/relative paths, environment-based home navigation, and command validation.
- Enabled external program execution, output redirection ($>$), and robust command parsing including single/double quotes and escape characters.
- Gained hands-on understanding of shell internals, process execution, quoting rules, and POSIX-style command-line behavior through incremental challenge-based development.

Currency Converter | *Python, Free Currency Converter API*   Jan 2024
- Developed a robust currency converter tool enabling real-time exchange rate calculations for 918 global currencies, providing a seamless user experience for international transactions.
- Integrated the Free Currency Converter API to fetch real-time, accurate exchange rates, ensuring up-to-date financial data with minimal latency (avg. response $<$60ms).
- Implemented multi-currency conversion functionality, allowing users to convert between a wide range of currencies simultaneously, offering a highly functional financial tool for diverse use cases.

FoodPicker | *Python, PyTorch, NLTK*   Oct 2022
- Built an intelligent chatbot using NLP and deep learning to streamline order selection, creating a responsive conversational interface for users.
- Implemented advanced NLP models using PyTorch and NLTK, training the chatbot on a custom dataset to automate 90% of order selections while minimizing conversational errors.
- Boosted user engagement by using conversational AI to simplify the ordering process, reducing order processing time by 30% and making the experience more efficient.