Sumit Kumar Jha

Undergraduate, Computer Science & Engineering

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Projects

Kurakani | github🔗
- Tech stack: Socket.IO, React, Node.js, Express, MongoDB, Zustand, JWT, Multer
- Developed a full-stack, responsive messaging web application with real-time messaging powered by Socket.IO.
- Users can create secure accounts with bcrypt & JWT authentication, and communicate via private or group chats.
- Features include persistent chat history managed by Zustand, emoji support, file sharing via Multer, and a modern, accessible UI built with shadcn components.

Tick | github🔗
- Tech stack: React, Vite, Appwrite (BaaS)
- Sticky notes web app featuring full CRUD functionality with persistent storage powered by Appwrite's BaaS.
- Designed clean UI for seamless note management without requiring authentication, ideal for quick note-taking.
- Implemented custom drag-and-drop feature for repositioning, built entirely from scratch without external frameworks.

Model based malware detector | github🔗
- Tools/Technologies: Python, Scikit-learn, TF-IDF, Logistic Regression, Pickle for model serialization.
- This project is the development of a machine learning model to classify files as either malware or legitimate (benign).
- Decision Tree and Random Forest classifiers are used for the classification, Extra Trees classifier for feature selection.
- model predicts the executables and URLs on the basis of program execution patterns and headers.
- malicious URLs classified using Logistic Regression with a custom URL sanitization process, TF-IDF vectorization.

Technical Skills

Languages	C, C++, Python, JavaScript
Development	ReactJS, Redux, ejs, zustand, Tailwind, SASS, NodeJS, ExpressJS, MongoDB, RemixJs
Courseworks	OS, DBMS, Object Oriented modeling, Computer Networks, Data Structures, Algorithms
Other Skills	Git, Bash, LATEX, API development, REST API
Tools	Github, Docker, VScode, Figma, ubuntu, windows, chrome dev tools

Education

Degree/Qualification	Institution	Batch	Percentage
Bachelor of Technology [CSE]	Motilal Nehru National Institute of Technology, Allahabad	2020 - 2024	7.85 / 10 CPI
Senior Secondary (Class 12th)	Dedraj Sewali Devi Todi DAV kedia vishwabharti school	2017 - 2019	81.80%
Secondary School (Class 10th)	Dedraj Sewali Devi Todi DAV kedia vishwabharti school	2015 - 2019	9.4/10 CGPA

Scholastic Achievements
- Qualified **SAT subject Test** 2020 among 2.2 million candidates, to get 90%ile to enroll in CSE in MNNIT
- Scored in the top 25% of every semester of classes in Bachelor of Technology.
- Solved 250+ Logic building problems on various coding platforms

Position of Responsibilities

SMP Mentor   (Jul'21-Jun'23)
- Member of student mentorship program, MNNIT, for the freshmen and second year students.
- Guided students with core subjects and consultancy for academic improvements.

Interests

- Data Structures
- Algorithms
- web application
- Web Technologies
- UI/UX Design
- Traveling