Aman Pratap Singh
Software Engineer

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SKILLS

Programming Languages	C/C++, JavaScript, Python, Java
Tools & Platforms	Git, GitHub, VS Code, Linux, AWS
Frameworks & Libraries	React.js, Express.js, Node.js, MongoDB, Tailwind CSS

PROJECTS

Shopping Cart Application   Mar 2024
- Developed a React-based shopping cart application enabling users to **browse**, **add**, and **view** products.
- Integrated **Redux** for global **state management** and utilized **React Route**r for navigation..
- Implemented **API integration** to fetch product data dynamically from https://fakestoreapi.com/products.
- Designed and structured components following best practices for **maintainability** and **scalability**.
- Configured local development environment for seamless project setup and testing.

Random GIF Generator   Mar 2024
- Created a React application that fetches and displays random GIFs using the **GIPHY API**.
- Implemented two main components allowing users to **view random GIFs** and GIFs based on **specific tags**.
- Utilized custom hooks for managing API interactions and state management.
- Designed reusable UI components for displaying GIFs and handling user input.
- Configured environment variables for setting up the GIPHY API key and provided setup instructions for running the application.

Web Portfolio   Apr 2024
- Developed a fully **responsive** portfolio website showcasing skills, qualifications, projects, and contact information.
- Implemented typing animation and functional contact form for enhanced user interaction.
- Utilized Font Awesome and Iconscout for high-quality SVG icons and Swiper.js for a carousel slider.
- Hosted the website on **GitHub Pages** and provided clear usage instructions for contributors.
- Encouraged contributions and provided guidelines for forking, cloning, and submitting pull requests.

Authentication Application (Server)   Apr 2024
- Developed a secure **authentication** and **authorization** system for web applications using **Node.js**, **Express.js**, and **MongoDB**.
- Implemented features such as user registration, login, **JWT authentication**, and role-based authorization to ensure data security and access control.
- Utilized bcrypt for secure password hashing and JWT for stateless authentication, enhancing system security.
- Structured project folders and files following best practices, including middleware for authentication and authorization, models for database schema, and routes for endpoints.
- Demonstrated proficiency with key technologies including Express.js, MongoDB, **bcrypt**, and **jsonwebtoken**, ensuring reliable user management functionalities.

Weather Application   Jan 2024
- Developed a **JavaScript** program for a weather application allowing users to view weather information based on their **current location** or a **location they search** for.
- Implemented tab handling for switching between the "**User Weather**" and "**Search Weather**" tabs.
- Integrated functionality to retrieve user coordinates either from **session storage** or through **geolocation**.
- Fetched weather information based on user coordinates or searched location using the OpenWeatherMap API.
- Designed responsive user interfaces for displaying weather information and handling user interactions.

EDUCATION

St Andrews Institue of Technology and Management   currently Pursuing
Bachelor of Technology in Computer Science - 7 CGPA   *Gurugram,Haryana*

Dr. Virendra Swarup Education Center   April 2020 — April 2022
Senior Secondary — 78%   *Kanpur,Uttar Pradesh*

CERTIFICATES

IBM Certificate for web-development   Certificate