

Sumit Bhikhchandani

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EDUCATION

Pandit Deendayal Energy University, Gujarat 2021-2025
B. Tech in Information and Communication Technology CGPA: 9.05

EXPERIENCE

BISAG (Bhaskaracharya Institute for Space Applications and Geo-Informatics) May 2024
(Software Engineer Intern)

- Working on a data quality project focusing on train stations and similar datasets.
- Utilizing React for frontend development, Node.js for backend operations, and SQL database for data storage and management.
- Fetching data from government APIs to compare against internal datasets.
- Generating a confusion matrix to assess and report data accuracy.
- Involved in implementing features across frontend and backend, ensuring seamless integration and functionality.
- Contributing to project documentation to ensure clear understanding and future maintenance.

PERSONAL PROJECTS

GoFood MERN Application([Link](#)) April 2024
React, Node.js, Express, MongoDB

- Full-Stack Development:** Built a comprehensive food ordering application using the MERN stack (MongoDB, Express, React, Node.js), covering both frontend and backend functionalities.
- User Authentication:** Implemented secure user authentication and authorization using JWT (JSON Web Tokens) for login and session management, ensuring safe access to user-specific features.
- Frontend Features:** Designed and developed an intuitive user interface with React, enabling users to browse menu items, add items to the cart, and place orders seamlessly.
- Secure Password Handling:** Utilized bcrypt for hashing passwords, enhancing security for user data stored in the MongoDB database.
- RESTful API Creation:** Created robust RESTful APIs to handle user registration, login, order placement, and retrieving order history, facilitating smooth communication between the frontend and backend.
- Technologies used:** MongoDB, Express, React, Node.js, JWT, bcrypt, RESTful APIs.

CI/CD Pipeline For Node.js Application ([Link](#)) June 2024

- Set up Jenkins to automate the process of cloning code from GitHub.
- Configured Docker to build images and deploy containers.
- Integrated SonarQube for static code analysis to maintain high code quality.
- Implemented secure credential management for DockerHub authentication and image pushing.
- Streamlined the deployment process by automating container stop, removal, and deployment.
- Technologies used:** Jenkins, Docker, SonarQube, GitHub.

Automatic Subtitle Generation for Videos ([Link](#)) Jan 2024
Python, MoviePy, SpeechRecognition

- Developed a Python script to automate the process of generating subtitles for videos based on their audio content.
- Utilized Python libraries such as MoviePy for video editing and SpeechRecognition for audio transcription.
- Extracted audio from video files, transcribed it using Google's speech recognition service, and generated subtitles in the SubRip (SRT) format.
- Enhanced accessibility and user experience by embedding subtitles into the original video.

TECHNICAL SKILLS AND INTERESTS

Tech: C++, C, HTML, CSS, JAVASCRIPT, NODEJS, EJS, JQUERY, BOOTSTRAP, API, REST, MONGODB, SQL, Amazon AWS
Developer Tools: Git, GitHub, Visual Studio, VS Code
Operating Systems: Linux, Windows, Android
Soft Skills: Problem Solving, Time Management, Teamwork, Leadership, Accountability, Communication
Areas of Interest: Web Development, Software Development, Algorithms, Problem Solving.

POSITIONS OF RESPONSIBILITY

• **Publicity Head,** Cretus - Robotics and Automation club, Student Club PDEU

CERTIFICATES

• **NPTEL** Understanding Incubation And Entrepreneurship ([Link](#)) Oct 2023
• **Udemy** Mastering Data Structures and Algorithms using C and C++ ([Link](#)) May 2023