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 Appliction (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*