

Devansh Soni

Bhopal, India



EDUCATION

Indian Institute of Technology Kharagpur
Bachelor of Technology in Chemical Engineering | CGPA: 8.62

Billabong High International School H.S.C | **95.6%**

Billabong High International School S.S.C | **97.2**%

Kharagpur, India 2023-28

Bhopal, India 2023

Bhopal, India 2021

TECHNICAL SKILLS

- Programming Languages: Go, C/C++, Bash, Python, HTML, CSS, Javascript
- Libraries, Frameworks and Databases: PostgreSQL, MongoDB, MySQL, NextJS, NodeJS, ReactJS, TailwindCSS
- Cloud & DevOps: Amazon Web Services (AWS), Microsoft Azure, Docker, Nginx, Git/GitHub, Linux
- · Tools: VSCode, Git/GitHub, Jupyter, Google Colab

PROJECTS

WikiHunt-Bot – *Go, Python, Sentence-BERT*

? 2025

- Developed a Wikipedia pathfinding service using a microservices architecture with Go and Python. This service leverages
 real-time data from Wikipedia APIs and employs graph traversal algorithms (DFS/BFS) to find connections between articles
- Optimized intelligent pathfinding capabilities by integrating NLP models (Sentence-BERT) for semantic similarity and implementing ML inference, achieving a 70% reduction in API requests and a 50% decrease in cost through intelligent batching
- Engineered a **high-throughput backend API** in Go, optimizing graph traversal algorithms to **slash average pathfinding latency** by over **90%** (from 3+ minutes to <20 seconds), significantly improving user experience for a microservices-based system

Attendance Monitor - Go, PostgreSQL

? 2025

- Built a **full-stack** attendance monitoring system from the ground up, which is production ready, utilizing **Go** (Golang) for the backend and React for the frontend, demonstrating versatility and end-to-end project ownership
- Architected a secure, scalable backend for a production-ready attendance system using Go and the Gin framework; implemented a RESTful API and custom JWT-based authentication to ensure data integrity and role-based access control
- Designed a normalized PostgreSQL database schema and authored optimized SQL queries using pgx to eliminate data redundancy and ensure data integrity for a system designed to scale to thousands of student records

Job Listing CRUD API - Go, PostgreSQL, Docker

2024

- Architected and implemented a modular, secure and scalable RESTful API in Go with 5+ endpoints for full CRUD functionality, securing sensitive operations with role-based access control via JWT authentication on crucial endpoints
- Orchestrated the deployment of a high throughput microservices application using Docker and Docker Compose, which established a unified development environment to slash new developer setup and configuration time by over 95%

Command-Line To-do List App – Go

2024

- Designed and implemented a user-friendly Command-Line Interface (CLI) to-do list application from scratch using GoLang
- Developed modular features allowing users to create, edit, toggle completion status, and delete tasks
- Utilized Go's built-in file I/O to persist task data locally, enabling state retention between sessions

LEADERSHIP & EXPERIENCE

Technology Coordinator – *Technology Students' Gymkhana, IIT Kharagpur*

2025 - Current

- Managed the **full-stack development** lifecycle of the university's high-traffic induction portal, serving **2,000+ students**; oversaw **project planning**, **development**, **testing**, and **deployment**, for a platform with **99.9% uptime** during peak registration period
- Directed the development of **3+** key campus **technology solutions** after gathering requirements from key stakeholders, including a **digital noticeboard** and an **automated library check-in** system that **reduced manual processing time** by **90%**
- Managed a team of 5+ Web Secretaries, coordinating technical proposals and execution to meet institute-wide technology goals

Executive Head – Developers' Society, IIT Kharagpur

2025 - Current

- Revitalized the Developers' Society by formulating a new team structure and leading the recruitment process from scratch
- Led the restoration & revival of the 'Appalanti' application, fixing legacy code and resolving bugs to restore full functionality

RELEVANT COURSEWORK

Programming and Data Structures with Lab | Advanced Calculus | Theory of Partial Differential Equations | File Organization and Database Systems Laboratory | Linear Algebra, Numerical and Complex analysis | Transform Calculus

EXTRA-CURRICULAR ACTIVITIES

- Vice-Captain, Interhall General Championship Led and motivated team as Vice-Captain in the Interhall Basketball Championship, contributing to strategic gameplay and team cohesion
- Co-writer and Actor, Nukkad Performed and collaborated in the Interhall Street Play Competition, enhancing hall representation through impactful theatrical expression
- Photography Cultivated a personal photography project on Pexels, attracting over 40 thousand views