DEVANSH SONI

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EDUCATION

Indian Institute of Technology Kharagpur	Kharagpur, India
Bachelor of Technology in Chemical Engineering	CGPA: 8.75	2023-28
Billabong High International School	Bhopal, India
H.S.C	95.6%	2023
Billabong High International School	Bhopal, India
S.S.C	97.2%	2021

TECHNICAL SKILLS

C/C++, GoLang, JavaScript, HTML, CSS, Docker, PostgreSQL, MySQL, Linux, React

PROJECTS

Developers' Society's Webpage - *React, Typescript, Tailwind*   *2025*
- Designed and deployed a fully responsive, visually engaging webpage to elevate the online presence of Developers' Society.
- Optimized performance and accessibility by implementing semantic HTML, responsive layouts, and media queries, leading to improved user experience across devices.
- Integrated dynamic content and interactive elements using JavaScript, enabling smooth navigation and user engagement.

Job Listing CRUD API – *GoLang, PostgreSQL, Docker*   *2024*
- Engineered a secure, modular, and scalable RESTful API in GoLang for managing job listings across organizations, enabling seamless CRUD operations for roles, descriptions, and qualifications.
- Implemented JWT-based authentication to safeguard endpoints and restrict sensitive operations to authorized admin users only.
- Containerized the entire application stack using Docker, enabling consistent development environments across various platforms.
- Orchestrated the deployment with Docker Compose, linking services like PostgreSQL and API backend for isolated and reproducible builds.

Command-Line To-do List App – *GoLang*   *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, ensuring a smooth workflow.
- Utilized Go's built-in data structures and file I/O to persist task data locally, enabling the application to retain state between sessions without the need for a database.

Line Following & Obstacle Avoidance Robot – *Arduino*   *2018*
- Assembled and programmed an autonomous robot from scratch, capable of real-time line following and obstacle avoidance using sensor-driven logic.
- Integrated ultrasonic and IR sensors to capture environmental data, enabling the robot to detect edges, avoid collisions, and make navigation decisions on-the-fly.
- Demonstrated the robot in a live environment, showcasing real-world applications in smart automation and autonomous systems.

Road Cleaning Robot Prototype – *Electronics, Mechanics*   *2018*
- Conceptualized and constructed a functional prototype for urban sanitation showcased at a regional science exhibition.
- Demonstrated effective mechanical control systems for autonomous surface cleaning.

POSITION OF RESPONSIBILITY & ACHIEVEMENTS

Development Subhead, Developers' Society – IIT Kharagpur | *2025*
- Spearheaded the development of DevSoc's official website, enhancing campus-wide tech visibility.
- Conducted comprehensive market analysis to strategize outreach for the annual hackathon.

Initiator, Education Drive for Underprivileged Children | *2020*
- Launched and coordinated a weekly education initiative for slum children near campus.
- Mobilized volunteers and partnered with NGOs to supply learning materials.