Devansh Soni

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EDUCATION

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

- **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** via 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 'ApnaInsti' 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