

SHIVAM SHEKHAR SOY

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Portfolio

EDUCATION

- Indian Institute of Information Technology, Agartala

2022 – 2026

Bachelor of Technology - Computer Science & Engineering

TECHNICAL SKILLS

Languages: C, C++, HTML, CSS, JavaScript, TypeScript, SQL, Python, Bash, Go

Frameworks/Libraries: Reactjs, Nextjs, Astro, Tailwind, Expressjs, Prisma, Drizzle, Zustand, Redux, Django, Gin

DevTools: Docker, Git, Github, cURL, Postman, Neovim, MongoDB, Postgres, Nodejs, Linux, AWS, Azure, Figma

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Database Management System, System Design.

EXPERIENCE

- Google Summer of Code @ GIMP

May 2025 - Present

Mentee

- Developing a new website for GIMP's extension platform. The project focuses on creating a primarily static website with minimal yet essential dynamic components, ensuring security and ease of maintenance.
- **Tech Stack:** Hugo, TailwindCSS, Python, Gitlab CI, Appstream XML.

- Kickoff

December 2024 - May 2025

Software Developer Intern

- Built a **scalable and user-friendly dashboard** using **TypeScript+React+Vite**, and **ShadCN+TailwindCSS**, improving performance and user engagement.
- Developed and integrated **AI-driven PoCs**, later merged into the main dashboard to automate key user workflows.
- Wrote and maintained **unit tests** for integral functions **in backend & frontend** and reducing production bugs.
- Implemented **CI/CD pipelines** for seamless deployment on **Firebase**, reducing manual deployment time.
- Created and deployed **DigitalOcean Functions** for enhancing app functionality and reducing latency.
- **Tech Stack:** Vite+React+TypeScript, TailwindCSS, Vitest+RTL, Python, Django, Pytest.

PROJECTS

- Stellar Minesite - ISRO Space Exploration Hackathon

August 2024

Developed a Machine Learning driven web platform for analyzing data on mining sites, and generating recommendations.

- Predicting efficient, sustainable sites using a Random Forest classifier model with **99%**, accuracy.

- User-friendly interface using Streamlit to allow users to interactively customize their mining site preferences and view ranked recommendations.

- **Tech Stack:** Streamlit, Numpy, Scikit, Tensorflow, Pandas, Python.

- MUNSOC NIT Agartala

April 2024

Developed a full-stack blog and CMS for the MUN club of NIT Agartala

- Increased page impressions with a beautifully designed blog, catering to over **100+** active members.
- Implemented a **custom text editor for blog writing** and an **admin approval system** for author contributions.
- **Tech Stack:** Nextjs App Router, ShadcnUI, Tailwind, Zustand, Lucia, Drizzle, Postgres, Typescript, Vercel.

- Watchmenu

March 2022

Built a full-featured command-line application to launch, organize, and manage media with ease.

- Intuitive **menu interface with dmenu** to browse and play media files effortlessly, enhancing the user experience
- Integrated history tracking, **YouTube search and play** and seamless integration with various media players.
- **Tech Stack:** Bash, Dmenu, Rofi, Fzf, Yt-dlp, Awk.

- Yukti

August 2024

Developed a file hosting service written in Go, focused on simplicity and efficiency.

- Features include short URL generation for files, **file expiration management using Go routines**, and the ability to block specified MIME types.
- Built to offer a no-frills file hosting solution, focusing on core functionality without unnecessary extras.
- **Tech Stack:** Gin, Golang, Go routines, Git.

ACHIEVEMENTS

- Runner-up in Software Track for Ethos '24 - IIT Guwahati ↗
- Winner of ISRO Space Exploration Hackathon. ↗
- Top 30 ranker in CodePeak 2023 - IIT Patna & IIT Guwahati ↗
- ACM ICPC 2023 prelims Rank: **1380**