

Sarthak Rangari

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PROFESSIONAL SUMMARY

- I'm a final-year B.Tech student at IIT Roorkee, passionate about coding and software development with experience in Full Stack and a strong foundation in Python, React and Django aiming to develop impactful software solutions.

SKILLS

- Programming Languages:** Python, C++, JavaScript, SQL
- Development:** Django, React, Node.js, Restful APIs, HTML, CSS, Testing
- Tools:** Docker, Kubernetes, Jenkins, AWS, Git, GitHub, Selenium, MySQL, PostgreSQL, NoSQL, MongoDB
- Other:** Data Structures and Algorithms, Object Oriented Programming (OOP), Code reviews, Figma, UI/UX Design
- Soft Skills:** Strong Communication skills, Leadership, Collaboration, Teamwork, Active Listener, Time Management, Problem-Solving & Debugging, Analytical thinking, Decision Making.

EXPERIENCE

- Full Stack Developer Intern** Roorkee, Uttarakhand
IIT Roorkee May 2024 - July 2024
 - Built a **Full-stack web platform** for the APN project "GOAL" using **React**, **Django**, and **MySQL**, seamlessly showcasing project activities, case studies, media and workshops with language translation using **Google Translate**.
 - Developed **RESTful APIs** with **Django REST Framework** and deployed the backend on **AWS EC2** for scalability.
 - Implemented **Docker** for **containerization** and set up a **CI/CD pipeline** with **Jenkins**, automating deployments.
 - Created **10+** intuitive **user interfaces** and **prototypes** in **Figma**, designing the complete website from **scratch**.
 - Optimized performance** and **reduced load times by 30%**, by image compression, **Redis caching**, query optimization and minimized HTTP requests.

PROJECTS

- Tribal Development Index Calculator (Django, MySQL, Pandas, Chart.js) | GitHub | Live**
 - Developed a web tool to calculate the **Tribal Development Index (TDI)** for **Jharkhand's** tribal communities.
 - Optimized survey data processing** for **5,000+ entries**, boosting **calculation speed by 30%** and cutting **processing time by 50%** using **Pandas Dataframes** and efficient column-wise operations.
 - Developed **interactive visualizations** with **Chart.js**, including bar graphs and pie charts, for intuitive **data analysis**.
 - Enabled **surveyors** to gain **instant insights** into **tribal growth** with **visual analysis** of survey data.
- Weelink - Social Media Platform (React, Django, Tailwind, Websockets, PostgreSQL) | GitHub | Demo | Live**
 - Developed a **responsive** and **user-friendly** social media platform using **React**, **Django** and **Tailwind CSS**.
 - Built a fast, interactive UI with **React** with **features** like posts, shares, likes, comments, and customizable profiles.
 - Developed a secure backend **API** with **Django REST Framework**, implementing **JWT authentication**, **Google authentication** for seamless login, and **real-time messaging** with **Django Channels** and **WebSocket**.
 - Deployed on **Render**, integrated **PostgreSQL**, and used **Redis caching** to enhance performance and scalability.
- Smart Job Finder and Cold Emailer (Python, Selenium, FastAPI, Email Automation) | GitHub**
 - Built a tool to **scrape** and **filter jobs** from **thejobcompany.com** and send **cold emails** to hiring managers automatically.
 - Developed a **Fast API backend** and a simple **interface** to input job preferences and receive filtered job listings via **email**.
 - Upload **HR data** to send **personalized emails** with name, company, and **resume**, with a time delay to avoid spam. Sent **200 emails** in **5 minutes**, receiving **6 replies (3% response rate)**.
 - Cuts **job search** time by **80%**, eliminating manual emailing and enabling **bulk applications** effortlessly.
- File Deduplication System Using Python (Python, Django, MySQL, SHA-256) | GitHub**
 - Developed a **storage optimization** system to reduce **data redundancy** by **60-80%**.
 - Broke files into **4KB data blocks**, storing only **unique** ones in the database.
 - Achieved up to **90%** storage reduction for highly redundant text datasets with **inline block-level deduplication**.
 - Built a **web interface** for file uploads, **real-time storage metrics tracking**, and efficient file reconstruction.

EDUCATION

- Indian Institute of Technology (IIT) Roorkee** Uttarakhand, India
Bachelor of Technology (BTech) - Mechanical Engineering Nov 2021 - May 2025

CERTIFICATIONS

- Cutshort Certified Python - Advanced | Certificate Link**
- Communication Skills For Success (Udemy) | Certificate Link**

HIGHLIGHTS

- Solved **300+ DSA problems** in **C++** on **LeetCode** and **GeeksforGeeks (Leetcode Link)**
- Secured **1st place** in the **Solo Singing** category at the IITR's General Championship 2024.
- Worked as a Executive member at **Cognizance, IIT Roorkee** in the video editing vertical