

# Sarthak Rangari

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## SKILLS SUMMARY

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- **Languages:** Python, Java, C++, JavaScript, SQL
- **Development:** Django, React, HTML, CSS, Restful APIs
- **Tools:** Docker, Kubernetes, Jenkins, AWS, CI/CD, Git, GitHub, MySQL, PostgreSQL, MongoDB
- **Other:** Data Structures and Algorithms, Figma, UI/UX Design
- **Soft Skills:** Strong communication & interpersonal skills , Leadership, Flexibility, Teamwork, Active Listener, Time Management, Problem-Solving & Debugging, Decision Making, Cooperation.

## EXPERIENCE

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- **Full Stack Developer Intern (URL)** Roorkee, Uttarakhand  
*Department of Architecture and Planning, IIT Roorkee* May 2024 - July 2024
  - Built the **website** for the APN project "GOAL" using **React**, HTML, CSS, and **JavaScript** to showcase project's activities, case studies, and workshops.
  - Created **RESTful APIs** with **django-rest-framework** and **MySQL**, deploying the backend on **AWS EC2** and the frontend on **Vercel**.
  - Crafted over **10** user interfaces and **prototypes** for the website using **Figma**.
  - **Optimized** website performance by improving **load times** by **30%** through image and query optimization, reducing HTTP requests and enabling **browser caching** using **Redis**.

## PROJECTS

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- **Automated Amazon Data Scraper Using Selenium (URL)**
  - Developed a **Selenium**-based **web scraping** tool to extract product details (names, prices, reviews) from Amazon.
  - **Automated** browser interactions using Selenium WebDriver and XPath for data extraction.
  - Extracted data from **100+ web pages** with increased efficiency.
  - Utilized **Pandas** to structure scraped data and export it to an **Excel** file for analysis.
- **File Deduplication System Using Python (URL)**
  - Designed a **Python**-based storage optimization system to **reduce** data redundancy by **60-80%**.
  - Broke files into 4KB data blocks, hashed them, and stored only **unique** blocks in the database.
  - Achieved up to **90% storage reduction** for highly redundant text data sets using inline block-level deduplication.
  - Implemented **SHA-256** for hashing each 4KB block and used **MySQL** for efficient storage.
  - Built a **Django**-based web interface for file uploads, real-time storage **metrics tracking**, and efficient file reconstruction.
- **Weelink - Social Media Platform (URL)**
  - Created a **responsive** and user-friendly social media platform with HTML, **Tailwind CSS**, JavaScript, **Django** and **PostgreSQL**.
  - Integrated features like Post, Share, Like, Comments and customizable profiles.
  - Implemented real-time messaging using **Django channels** and **WebSocket**, along with secure user authentication.
  - Deployed the platform on **AWS EC2** with **Docker**, **Kubernetes**, and a Jenkins-powered **CI/CD** pipeline.
- **Tribal Development Index Calculator (URL)**
  - Developed a web tool to calculate the Tribal Development Index (TDI) for Jharkhand's tribal communities using **Django**, **MySQL**, HTML, CSS, and **JavaScript**.
  - Processed a survey dataset of **more than 5000** entries with **Pandas**, **improved** the calculation speed by **30%** and reduced the data **processing time** by **50%**.
  - Generated interactive **visualizations** with **Chart.js** and deployed the tool on an **AWS EC2** instance for scalability and performance.

## EDUCATION

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

## CERTIFICATIONS

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- **Communication Skills For Success (Udemy) - Certificate Link**

## HIGHLIGHTS

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- Achieved **AIR 25,216** in JEE Advanced 2021, standing out among over **150,000** candidates.
- 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