

Samarth Varshney

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Skills

Programming Languages

Java, Python, C

Frameworks & Libraries

Spring Boot, JUnit, Flask, OpenCV

Core Concepts

OOP, MVC Architecture, Multithreading, API Integration

Version Control

Git, GitHub

Web Technologies

HTML, CSS, JavaScript, JSP, Servlets

Databases

MySQL, MongoDB

Cloud & API

AWS, REST APIs, Google Sheets API, SERP API

Experience

Space Applications Centre, ISRO

Research Intern

July 2024 - September 2024

- Engineered backend modules using **Java**, **JSP**, **SQL**, and integrated the UI with **Angular** to improve **system responsiveness**.
- Redesigned **backend architecture** and optimized **SQL queries**, reducing execution time by **30%**.
- Improved **complaint tracking** and **repair response times** by **60%** through streamlined **workflows**.
- Streamlined the **approval process**, reducing **turnaround time** by **35%** with **automation**.
- Generated **unit tests** and **documentation** to support maintainability and presented the completed **system** to **SAC officials**.

Sasahyog Technologies Pvt. Ltd.

Backend Developer Intern

June 2023 - September 2023

- Built an online ticketing system with **QR entry** for Rotary Club, improving check-in speed by **50%**.
- Designed **backend architecture** for an accounting app using **Python (Flask)** and **MongoDB**, reducing data retrieval time by **30%**.
- Incorporated **REST APIs** and **OTP login** with **Twilio**, reducing login failures by **40%**.
- Created a **Python web scraper** to auto-update **Google Sheets**, saving clients **10+ hours/week**.
- Devised a **report generation module** for internal dashboards, cutting reporting time by **60%**.

Education

Sir Chhotu Ram Institute of Engineering and Technology

8.35/10 CGPA

November 2021 - Present

Bachelor of Technology - Computer Science

Bishop Conrad Sr. Sec. School

Percentage: 88.2%

July 2021

Intermediate

Bishop Conrad Sr. Sec. School

Percentage: 95.2%

May 2019

High School

Projects

Java HTTP Server

🐙 GitHub

- Built a **multi-threaded HTTP server** in **Java** to handle **10-15 concurrent connections** for testing.
- Implemented socket programming** to maintain **stable communication** across **5+ client sessions**.
- Served **static files** with proper HTTP responses and status codes.
- Managed thread pooling** to improve **CPU usage** by **~20%** under simulated load.

QuizHub – Online Quiz System

🐙 GitHub

- Developed a **quiz platform** with **HTML**, **CSS**, and **JavaScript** to support **60+ simultaneous users**.
- Implemented question rendering and real-time scoring for **~25 question quizzes**.
- Reduced **manual grading time** by **~90%** through **automated scoring** and **result export** features.

FaceRec – Automated Attendance System

🐙 GitHub

- Created a **real-time face recognition** attendance system using **Python** and **OpenCV**, achieving **86%+ accuracy** in test environments.
- Integrated anti-spoofing measures** to improve **system reliability** and reduce **false acceptances**.
- Enabled contactless check-in**, cutting **manual entry time** by **~80%** in trials.