

Sparsh Guha

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Summary

Backend-focused CS undergraduate skilled in Python-based API development, cloud deployment, and automation workflows. Strong foundations in data structures, algorithms, OOP, OS, DBMS, and distributed systems. Seeking SDE / Backend opportunities.

Technical Skills

- **Languages:** Python, Java, C, SQL
- **Backend:** FastAPI, Flask, REST APIs, Auth, Routing
- **Cloud & DevOps:** AWS EC2, AWS S3, Docker, Linux
- **Databases:** MySQL, PostgreSQL, SQLite, Indexing, Query Optimization
- **Core CS:** Data Structures, Algorithms, OOP, OS, DBMS, CN
- **Tools:** Git, GitHub, Postman, VS Code

Experience

AI Model Evaluation & Quality Assurance (Freelance) — Soul AI (Deccan AI) *Nov 2025 – Present*

- Evaluated AI-generated responses using predefined rubrics to identify logical, factual, and behavioral issues.
- Documented recurring error patterns and contributed findings to internal model improvement cycles.
- Followed structured QA workflows to ensure consistency, completeness, and guideline adherence during evaluations.
- Gained exposure to production QA pipelines and evaluation-based quality processes.

Open Source Contributor — GirlScript Summer of Code (GSSoC) *May 2024 – Aug 2024*

- Resolved issues and submitted PRs to open-source repositories using JavaScript and project-specific tooling.
- Participated in code reviews, improving understanding of collaborative workflows and version control.

Projects

Fraud Detection System — FastAPI, AWS, ML *Apr 2025*

- Built a FastAPI backend with secure routing and validation; improved response consistency and reduced failed requests by 20%.
- Deployed on AWS EC2 with S3 dataset storage (10–20MB). Trained XGBoost/LightGBM models achieving ROC AUC 0.9458.

Dragon's Vault Discord Bot — Flask, Discord API *May 2025*

- Automated request workflows with role-based access, reducing moderator load by 50+ tasks/month.
- Implemented Flask admin endpoints, cutting approval and handling time by 30%.

Offline Subtitle Translator *Sep 2025*

- Built a translation pipeline processing 200–300 lines/min and reducing multi-step manual effort by 60%.

eCourts Cause List Scraper — BeautifulSoup *Oct 2025*

- Developed a scraper to fetch and parse public cause list pages; extracted key text fields and handled noisy HTML.

Achievements

- Runner-up — Bug Buster (XIM University)
- Runner-up — Hyperthon (GFG KIIT)
- Top 10% — G04 Environmental Olympiad

Education

KIIT University, Bhubaneswar *2022 – 2026*

B.Tech in Computer Science Engineering — CGPA: 8.12 / 10

Army Public School, Kolkata (CBSE) *2022*

Class XII (PCM + CS): 79.66%

Army Public School, Jodhpur (CBSE) *2020*

Class X: 88.66%