

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)	<i>Nov 2025 – Present</i>
<ul style="list-style-type: none">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)	<i>May 2024 – Aug 2024</i>
<ul style="list-style-type: none">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	<i>Apr 2025</i>
<ul style="list-style-type: none">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	<i>May 2025</i>
<ul style="list-style-type: none">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	<i>Sep 2025</i>
<ul style="list-style-type: none">Built a translation pipeline processing 200–300 lines/min and reducing multi-step manual effort by 60%.	
eCourts Cause List Scraper — BeautifulSoup	<i>Oct 2025</i>
<ul style="list-style-type: none">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	<i>2022 – 2026</i>
B.Tech in Computer Science Engineering — CGPA: 8.12 / 10	
Army Public School, Kolkata (CBSE)	<i>2022</i>
Class XII (PCM + CS): 79.66%	
Army Public School, Jodhpur (CBSE)	<i>2020</i>
Class X: 88.66%	