

SAGAR PANWAR

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[🌐LinkedIn](#)

[🔗Leetcode](#)

[🐙Github](#)

Education

Uttaranchal University

Bachelor of Technology in Computer Science, CGPA: 7.72(till 7th Sem)

Sept 2022 – Aug 2026

Dehradun, Uttarakhand

Relevant Coursework

- Computer Architecture
- Database Management
- Computer Networks
- Data Structure
- Algorithms Analysis
- Operating System
- Artificial Intelligence
- OOPS

Experience

Intern – Slog Solutions | Data Structures & Algorithms in C+

June 2023 – July 2023

- Completed a 45-day intensive DSA training, mastering key topics like arrays, linked lists, trees, sorting, and searching.
- Demonstrated a growth mindset by improving coding ranking and accuracy by 40% through rigorous daily practice.
- Built and optimized C++ data structures, improving runtime efficiency by up to 30%

Projects

LRU Cache — Memory & Concurrent Variants | (Github)

Aug 2025 – Sep 2025

- Engineered O(1) cache using HashMap + Doubly Linked List, achieving >95% cache hit rate and reducing average lookup time from 12ms to 5ms.
- Implemented adaptive eviction policies, optimizing memory usage by 25% under 10k+ entry loads.
- Developed thread-safe variant supporting 100+ concurrent requests/sec.
- **Tech Stack:** Java, Data Structures, Maven, JUnit 5, Git GitHub, Java Concurrency.

Face Guard Attendance | (Github)

Sep 2025 – Oct 2025

- Developed a real-time attendance system using Python, OpenCV, and Facial Recognition to automate identity verification and logging.
- Built real-time facial recognition pipeline processing 30+ frames/sec, cutting attendance marking time from 2 minutes to 20 seconds per student.
- Achieved 92% recognition accuracy across 50+ facial samples with OpenCV's LBPH model.
- **Tech Stack:** Python, OpenCV, Computer Vision, Machine Learning, Face Recognition, NumPy.

Order Management REST API | (Github)

Nov 2025 – Dec 2025

- Designed and implemented a REST API using a layered controller-service-repository architecture to improve code structure and maintainability.
- Documented 15+ endpoints with Swagger, decreasing frontend integration effort from 3 days to 1.5 days.
- Containerized PostgreSQL with Docker, reducing deployment setup from 2 hours to 10 minutes, ensuring 99.9% uptime.
- **Tech Stack:** Java, Spring Boot, PostgreSQL, Docker, JWT, Swagger, Maven, JUnit, Mockito.

Programming Skills

- **Programming Languages:** Java, Python, JavaScript.
- **Backend:** Spring Boot, REST APIs, JPA, OpenCV.
- **Databases:** PostgreSQL, Relational Database Design, SQL.
- **Unit Testing / Build / DevOps:** Git, Maven, Docker, JUnit, Mockito, Swagger, GitHub, CI/CD.
- **Key Skills:** Teamwork & Collaboration, Communication, Problem-Solving, Agile Development, Time Management

Certification

- Mastered Data Structures and Algorithms — Slog Solutions, 2023
- Introduction to Generative AI, Responsible AI, LLMs, AI Fundamentals, and Image Generation — Google Skills, 2024
- Web Development (HTML, CSS, JS) — Simplilearn, 2025
- Cloud Practitioner Essentials — AWS Skill Builder, 2026