ATRAYEE PATHAK

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PROFESSIONAL SUMMARY

Computer Science Engineering student with hands-on experience in DevOps. Proficient in cloud infrastructure and automation with practical experience in CI/CD pipelines, containerization using Docker, and monitoring with Prometheus and Grafana. Strong foundation in leadership experience in campus organizations.

EDUCATION

UPES   **2022 – 2026**
Bachelor of Technology in Computer Science Engineering   *CGPA: 8.0/10*
The Asian School   **2020 – 2022**
Higher Secondary Certificate, Central Board of Secondary Education   *Percentage: 82.4%*
Ann Mary School   **2019 – 2020**
Secondary School Certificate, ICSE   *Percentage: 86%*

TECHNICAL SKILLS

Programming Languages: C++, Java, SQL
Databases: MySQL
Tools and Technologies: Git, GitHub, Docker, Linux, Amazon Web Services (AWS), Prometheus, Grafana, Jenkins
Development Tools: Visual Studio Code, IntelliJ IDEA
Operating Systems: Windows, Linux
Concepts: Data Structures and Algorithms (GeeksforGeeks, Code360), Object-Oriented Programming, Database Management Systems, Software Engineering

WORK EXPERIENCE

Austere System Limited   **June 2025 – July 2025**
Front-End Developer Intern   *Gurugram, India*
- Developed responsive user interfaces for the 'Toyfort' e-commerce platform using React.js, improving user experience and mobile compatibility.
- Collaborated in an agile environment to implement interactive features, optimize website performance, and contribute to code reviews.

Agyaal NGO   **June 2023 – July 2023**
Volunteer   *Dehradun, India*
- Led environmental conservation initiatives, including river cleaning drives and waste management programs.
- Organized awareness campaigns on water pollution, engaging over 200 community members.

PROJECTS

Medical Image Diagnostic Aid with Patient-Centric Explanation | *AI/ML, Python, YOLOv8, Docker*
- Developed an AI-powered diagnostic aid to analyze MRI scans for potential brain tumors using a **YOLOv8** object detection model.
- Integrated **Ollama's Gemma3 LLM** through a Python backend to automatically generate patient-centric, natural language explanations of the visual findings.
- Containerized the full application stack using **Docker** and published the image on **Docker Hub**, enabling simple, one-command deployment for end-users.

Smart City Expansion | *Java, Dijkstra's Algorithm, A*, Bellman-Ford*
- Optimized urban transport routes and planned new station placements using Dijkstra's, A*, and Bellman-Ford algorithms in Java.

Girls' Hostel Management System | *HTML, CSS, JavaScript, Node.js, MongoDB*
- Built a full-stack web application for hostel management with user authentication and room booking functionality.

LEADERSHIP AND ACTIVITIES

- Member of Official Discipline Committee at UPES: Maintained campus decorum and enforced university policies.
- Event Coordinator: Organized and supervised college technical and cultural events with 500+ participants.
- **Certificate in Project Management** — London School of Business and Finance (Aug 2025)