Atul Yadav

Software Engineer

+91-8887579949 atuljobs26@gmail.com Atul-Dev-hub CodeChef LeetCode Codeforces

EDUCATION

Indian Institute of Information Technology, Guwahati **2022 – 2026**
B.Tech in Computer Science and Engineering *Guwahati, India*

Class XII (CBSE) **2021**
Score: 88.4% — Medium: English *India*

Class X (CBSE) **2019**
Score: 88.8% — Medium: English *India*

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Computer Networks
- DBMS
- Artificial Intelligence
- OOPS
- Web Development

EXPERIENCE

Software Development Project Assistant **Jan 2026 – June 2026**
Department of CSE, IIIT Guwahati — Mentor: Prof. Dr. Sanjay Moulik *Guwahati, India*

- Built **CampusIQ**, a centralized campus operations platform, by designing and developing RESTful backend services in **Java, Spring Boot, Hibernate, and MySQL** to manage student, faculty, course, and administrative workflows.
- Designed a **Role-Based Access Control (RBAC)** system supporting 3 distinct user roles (student, faculty, admin), enforcing secure, permission-scoped access to CRUD operations across all modules.
- Diagnosed and resolved slow database queries through **index optimization and query restructuring**, improving response times for high-traffic endpoints in the MySQL data layer.
- Delivered maintainable, production-ready backend modules by applying **object-oriented design principles**, structured exception handling, and request-level API validation, using **Git** for version control.

PROJECTS

InterviewIQ — AI Mock Interview Platform | React.js, Node.js, Express.js, MongoDB
- Built a full-stack AI interview platform generating personalized questions using LLM APIs and resume analysis.
- Developed an automated evaluation system scoring responses and generating structured feedback reports.
- Integrated authentication and credit-based usage control to support secure and scalable interview workflows.

Driver Drowsiness Detection System | Python, TensorFlow, OpenCV
- Developed a real-time computer vision system detecting driver drowsiness with 94% accuracy on a custom dataset.
- Implemented an optimized OpenCV pipeline for face detection and eye ROI extraction, sustaining 20–25 FPS performance.
- Fine-tuned a MobileNet CNN and engineered low-latency alert logic triggering warnings within 200 ms.

ACHIEVEMENTS

- **Codeforces Specialist** with rating **1548** (Div. 2) Codeforces
- **CodeChef 4-star** coder with rating **1830** CodeChef
- **LeetCode** with maximum rating **1500** LeetCode
- Solved **400+** Data Structures and Algorithms problems across various platforms
- Secured **All India Rank 25,000** in **JEE Mains** out of **1.2M+** candidates, earning admission to **IIIT Guwahati**
- Completed multiple academic and personal projects showcasing hands-on experience with **modern web development tools**

TECHNICAL SKILLS

Languages: JavaScript, C, C++, Python, SQL ,Java

Frontend: React.js, HTML, CSS, Tailwind CSS

Backend: Node.js, Express.js, REST APIs ,Spring Boot ,FastApi

Databases: MongoDB, MySQL

Tools: Git, GitHub, Docker, CI/CD, Aws, Linux, Unix,Gitlab

GenAI & AI: Prompt Engineering, LLM Integration, OpenAI API, RAG, AI Agent Development, LangChain, Vector Databases