

ADITYA SHARMA

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EDUCATION

National Institute of Technology, Karnataka 2020 - 2024
Bachelor of Technology, CGPA: 8.01/ 10.00

Indian Institute of Technology, Madras 2023 - 2024
Bachelor of Science in Data Science and Application (Foundation level)

EXPERIENCE

Microsoft — Engage Mentee Apr 2022 - May 2022

- Built a Facial Recognition application to analyze eye strain and adjust font size dynamically to users.
- Achieved 90%+ accuracy in detecting eye fatigue via blink rate and eye openness tracking.
- 60% of surveyed users preferred adaptive fonts over fixed sizes for prolonged reading.

PROJECTS

Online Judge: Jun 2023 - Aug 2023

- Designed a scalable, high-performance online coding platform that compiles and executes user-submitted code in real time, providing instant feedback.
- Developed with MERN stack with Redux, incorporating Docker and advanced sandboxing techniques to ensure 100% code isolation, preventing security vulnerabilities and unauthorized access.
- Implemented polling and message queue-based optimizations, enabling the platform to handle 10,000+ code submissions daily and sustain 500+ concurrent users with 99.9% uptime on AWS EC2 instances.
- Designed a future-ready architecture by integrating Nginx load balancing and horizontal scaling strategies, ensuring the platform can scale efficiently with increased traffic.

Exam Module 2: Oct 2023 - Jan 2024

- Led a 4-member team to build a web-based examiner allocation system, automating faculty assignments for all 30+ departments, eliminating 100% of manual scheduling efforts and streamlining administrative workflows.
- Managed scheduling for 500+ faculty members, ensuring seamless notifications and real-time updates.
- Digitized 95% of paper-based allocation processes, reducing administrative workload by 60+ hours per semester and ensuring instant notification delivery via an integrated email & SMS alert system.

TECHNICAL SKILLS

Programming	C/C++, Python, JavaScript
Web Development	HTML, CSS, React, NodeJs, Rest API, ExpressJs, Redux, Redis, SocketIO, Docker
Database	MySQL, MongoDB
Tools	Git/Github, Visual Studio, AWS, Postman, Framer
Certificates	AWS Cloud Technical Essentials, Solutions on AWS, Building Data Lakes on AWS.

ACHIEVEMENTS

- Awarded James E. Casey Scholarship (\$2,500/year for four years).
- Secured a JEE Advanced rank under 2% nationwide.
- Published an article on Azure DevOps automation in GeeksforGeeks.
- Solved 500+ programming problems with consistency.