Akshat Sharma

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Github | Codeforces | CodeChef | LeetCode

EDUCATION

Course	College / University	Year	CGPA / %
B.Tech (CSE)	Netaji Subhas University of Technology	2022–26	6.52

WORK EXPERIENCE

- **Contributor at D Language Foundation | Remote** **March-2025 – April-2025**
  - **Key Contributions :**
    * Resolved a critical segmentation fault, improving error response quality - Issue PR
    * Improved error message when trying to convert an infinite input range to a string - Issue PR
    * Gracefully tackled an infinite loop during runtime for a niche test-case - Issue PR
    * Performed a performance analysis of primitive JSON parser of D Lang (jsoniopipe) with Industry level parsers of C++ (Rapidson and Simdjson) - Repository Link Report Link
  - Got recognized by the organization as an Official Contributor [Look for "Akshat(DeterminedSage)"]

- **SWE Co-op Intern at AlgoUniversity | Remote** **May 2025 – June 2025**
  - Engineered **LeafCoders**, an AI-powered Online Judge system based on the theme of a popular Japanese series **(Naruto)** using the **MERN stack**, simulating real-world distributed platforms. Live Project Link | Github
  - Designed scalable backend microservices, using JWT authentication and multi-language code execution.
  - Developed RESTful APIs with MongoDB and Express.js for CRUD operations with optimized schema design for large question datasets as well as leveraged Docker for containerization and deployment on Azure VM.
  - Integrated **Gemini-powered AI code review** module for real-time feedback .
  - Implemented anime-themed UI using React and enhanced user interaction via dynamic component rendering.

COMPETITIVE PROGRAMMING PROFILE

- **Competitive Ratings:** Codeforces –>Expert (1644) | CodeChef –> 4 Star (1921)
- **Best Performances:**
  - Global Rank 140 – CodeChef Starters 185D   Global Rank 236 – CF Round 1009 (Div. 3)
  - Global Rank 154 – CodeChef Starters 192B   Global Rank 413 – CF Round 1032 (Div. 3)
  - Global Rank 263 – CodeChef Starters 187B   Global Rank 588 – CF Round 1013 (Div. 3)
  - Global Rank 336 – CodeChef Starters 191B   Global Rank 654 – CF Round 980 (Div. 2)
- **110+ contests and 1300+ problems across platforms**

TECHNICAL SKILLS AND COURSEWORK

- **Languages:** C++ (most proficient), Python, JavaScript
- **Frameworks & Libraries:** React, Node.js, Next.js, Redux Toolkit, Express.js, Expo (React Native) , NumPy, Pandas, Matplotlib, Seaborn, scikit-learn
- **DevOps & Tools:** Git, GitHub, Node.js, MongoDB, MySQL, Docker, Microsoft Azure, Vercel
- **Coursework:** Data Structures, Algorithms, Object-Oriented Design, Operating Systems, Computer Networks, DBMS

PROJECTS

- **InvoicePro: Professional Invoice Generation Platform** Live Project | GitHub Repo
  - Architected a scalable SaaS-based invoicing system using **Next.js 14, TypeScript, & MongoDB** .
  - Built secure, distributed authentication via JWT & OTP-based email verification via Nodemailer & Gmail SMTP.
  - Employed Redux Toolkit and Tailwind CSS to manage global state and responsive design across organizations and invoice templates as well as integrated RESTful backend APIs .
  - Enabled multi-tenant support, real-time invoice calculation, & seamless deployment using Docker and Vercel.

ACADEMIC ACHIEVEMENTS, HONOURS AND RESPONSIBILITIES

- Scored **99.06 percentile in JEE Mains 2022** – secured **AIR 8,557**; qualified **JEE Advanced 2022 (AIR 22,035)**.
- Authored a research paper under Prof. Abhinav Tomar in IEEE Sensor format (citation applied).
- Chosen for **Accelerator Programming Camp 2025 (AlgoUniversity)** - among top **1.4% of 40,000+** applicants.
- **Graphs Camp by Codeforces Master** — Featured in the Hall of Fame among **80,000+** students.
- **Class Representative (Sem 1–2)** of 120+ students, organized Ethnic Day in collab with fellow CRs .
- **Member of Debating Society** : Participated in MUNs and debates , enhanced articulation skills.