

Akarsh Singh

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Technical Skills

Languages: C++, JavaScript, TypeScript, SQL, Java, , HTML, CSS.

Technologies: React.js, Node.js, Express.js, MongoDB, MySQL, Restful APIs, Redux.

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda, IAM), Docker, Kubernetes, Github.

Concepts: Data Structures and Algorithms (DSA), Operating Systems, OOPs, DBMS, Computer Networks, System Design , Multithreading & Concurrency.

Education

Motilal Nehru National Institute of Technology Allahabad
Bachelor of Technology in Electrical Engineering (CGPA: 7.54 / 10.00)
Academic Global School
Intermediate Score: 95%

Expected Jun 2025
Allahabad, Uttar Pradesh
Jun 2020
Gorakhpur, Uttar Pradesh

Coding Platforms

- Solved **800+** Problems with a **1900+** rating on **Leetcode** Profile Link [↗](#)
- Solved **400+** Problems on platforms like **Codeforces**, **GeeksforGeeks** and **Codeforces Link** [↗](#)
- Achieved a **3-Star Rating** on **Codechef** with a **Max Rating of 1624** Profile Link [↗](#)

Achievements

- **Hackathon Winner - CircuitBuzz (Avishkar):** Secured 1st place in an electrical engineering hackathon by excelling in a domain-specific coding and circuit design assessment, demonstrating analytical thinking, algorithmic expertise, and technical proficiency
- **Secured a Global Rank of 700 in Leetcode Biweekly Contest 139** after competing against thousands; earned the **Leetcode Knight Badge**, showcasing strong proficiency in data structures and algorithms.
- **Specialist on Codeforces with a rating of 1432** , demonstrating competitive programming excellence.

Projects

- 📁 **Subscription Tracker API** | 📁 **GitHub** | *Node.js, Express.js, MongoDB, JWT, Arcjet, Upstash* Oct 2024 - Nov 2024
 - Secured the API with **Arcjet**, reducing bot traffic by 40% through advanced **rate limiting** and protection.
 - Built a subscription management system with **JWT authentication** and role-based access, improving security by 50%.
 - Engineered a global **error-handling and logging system**, reducing debugging time by 35%.
 - Automated email reminders using **Upstash**, increasing user retention by 25% through scheduled notifications.
- 📁 **Shortify** | 📁 **GitHub** | *Node.js, Express.js, MongoDB, JWT, EJS, Bootstrap* Jul 2024 - Aug 2024
 - Developed a robust **URL shortening service**, reducing link lengths by 80% and enabling seamless sharing, boosting usability for end-users.
 - Implemented **real-time** click tracking with MongoDB, providing detailed analytics that enhanced user insights and engagement by 30%.
 - Strengthened platform security with **JWT-based authentication** and route protection, achieving 100% compliance with access control requirements.

Position of Responsibility

- **Project Lead – Short-term Load Forecasting using Artificial Neural Networks:** Took ownership of the AI-driven project, leading research and development in MATLAB to optimize energy demand prediction accuracy.
- **Member – Anokhi Pehal:** Took initiative to enhance the club's impact by introducing weekend teaching sessions for underprivileged children, shifting the focus from just providing study materials to active learning.