KIRAN KUMAR

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Objective

Final-year Computer Science Engineering student with a strong interest in Backend and Cloud technologies. Experienced in building backend systems using Node.js and Redis, and currently learning Kubernetes. Looking to apply my skills in developing reliable and scalable software systems.

Education

Alva's Institute of Engineering & Technology (AIET)   **Nov. 2022 – May 2026**
Bachelor of Engineering in Computer Science and Engineering   *CGPA: 8.22 / 10*

Technical Skills

Languages: C, Java, JavaScript, Bash, Python

Developer Tools & OS: VS Code, Git, GitHub, Linux, Windows

Frameworks/Databases: React.js, Node.js, MongoDB

Cloud & DevOps: Docker, Kubernetes, AWS, Azure, Argo CD

Soft Skills: Effective communication, Strategic leadership, Cooperative teamwork, Analytical problem-solving, and Flexibility.

Projects

Asynchronous Background Job Processing System   *Node.js, Express.js, Redis*

- Designed an asynchronous background job processing system to execute long-running tasks outside the request–response lifecycle.
- Implemented Redis-backed job queues to enqueue tasks and worker processes to consume and execute them independently.
- Decoupled heavy operations from synchronous APIs, significantly improving backend responsiveness and throughput.
- Enabled horizontal scalability by supporting multiple workers processing jobs concurrently.

API Rate Limiting and Caching System   *Node.js, Express.js, Redis*

- Implemented API rate limiting middleware to control excessive client requests and prevent service abuse.
- Used Redis for fast in-memory tracking of request counts with time-based expiration policies.
- Designed caching mechanisms to store frequently accessed API responses and reduce backend load.
- Improved API performance and reliability by minimizing redundant computations and database calls.

Secure File Upload and Management System   *Node.js, Express.js, Multer*

- Developed a secure file upload and management system supporting file upload, retrieval, and deletion operations.
- Implemented backend validation for file type and size to mitigate security risks during uploads.
- Managed file lifecycle operations with controlled storage and safe cleanup mechanisms.
- Integrated frontend and backend components to provide seamless user interaction with stored files.

Achievements

- **Salesforce Developer Internship:** Completed an **8-week internship (May–July 2025)** via **AICTE & SmartBridge**, working on Salesforce development fundamentals and workflows.
- **Oracle Certification:** Earned the **Oracle Cloud Infrastructure 2025 Certified Multicloud Architect Professional** credential.
- **Infosys Springboard:** Certified in **Java, React, DBMS, Kubernetes, AWS Solutions Architect, and Azure Administrator**.
- **CodeChef:** Solved **250+ Data Structures and Algorithms problems** and completed the **DSA Certification Programme**.
- **LeetCode:** Solved **170+ algorithmic problems** focusing on core DSA patterns and interview preparation.
- **AWS Educate:** Active member of the **AWS Educate Emerging Talent Community**.
- **IEEE Paper:** Presented the review paper *"Wireless Networks and Cloud: A New Era of Connectivity"* at an IEEE-recognized forum.

Extra-Curricular Activities

- Organized Swachh Bharat awareness programs in rural communities.
- Conducted computer fundamentals training for high school students.