Akshat Agarwal

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Summary

Final-year Computer Science (AI) student with strong expertise in backend development, RESTful API design, and database management. Experienced in building and optimizing scalable server-side applications, integrating caching mechanisms (Redis), and ensuring secure authentication. Proven ability to collaborate in cross-functional teams, manage project timelines, and deliver reliable, high-performance backend solutions.

Education

Pranveer Singh Institute of Technology, Kanpur   **Graduating: 2026**
Computer Science and Engineering-(AI)   *CGPA: 8.2 / 10*

Skills

Programming Languages: Java, Python
Frontend Development: HTML, CSS, JavaScript
Frameworks: React.js, Express.js
Backend: Node.js, RESTful API, Redis Caching
Database Management: MongoDB, SQL

Tools & Platforms: Git, GitHub, VS Code, Postman Docker.
Testing Framework: Jest (Unit, Intergrated testing)
Methodologies: Agile Development
Soft Skills: Team Management, Collaboration

Projects

SwastCare | GitHub | Demo   **Mar 2025 – May 2025**
- **Backend development** for a hospital management platform, ensuring smooth patient registration and hospital operations.
- Implemented OPD/IPD and ward modules to automate workflows, reducing manual entry and errors.
- Added lab report management and secure role-based authentication for staff and admins.
- Collaborated with a team of 4, managing backend features, reviewing code, and coordinating project progress.
- Boosted API performance by integrating **Redis caching** for frequently requested patient data, cutting database calls and improving response speed by up to 88%.
- **Tech Stack:** Node.js, Express.js, MongoDB (Atlas), Redis, REST APIs, React.js, Cloudinary

BoardMeet | GitHub | Demo   **Feb 2025**
- **Built a real-time collaborative whiteboard application** supporting 2-user peer interaction with instant updates.
- Integrated WebRTC and WebSocket protocols for live video and drawing synchronization.
- **Tech Stack:** React.js, WebSocket, WebRTC, Node.js, Express.js

Journey-Junction | GitHub | Demo   **Jan 2024 – Feb 2024**
- **Engineered a responsive travel booking platform** with smooth CSS animations and interactive UI.
- Implemented real-time ticket booking and dynamic route mapping for enhanced travel planning.
- Optimized DOM rendering and animations, reducing page load time by 20%.
- **Tech Stack:** HTML5, CSS3, JavaScript, Bootstrap

Achievement

- Solved **500+** DSA problems on LeetCode.
- Earned **5-star** rating in **Data Structure and Algorithm** on HackerRank.
- Earned **4-star** rating in **Java** on HackerRank.

Certifications

- **AWS Cloud Practitioner** — By AWS   **Jun 2025**
- **Artificial Intelligence Fundamentals** — By IBM   **May 2025**
- **Front-End Development Libraries** — By FreeCodeCamp   **Mar 2024**
- **Programming Fundamental with Python** — By Infosys SpringBoard   **Nov 2023**